Vol. 58

Index/Contents

2008

Subject Index

Activation
Surface Functional Characteristics (C, O, S) of Waste Tire-Derived Carbon Black before and after Steam Activation, 78

Adsorption
Biofiltration Kinetics of a Gaseous Aldehyde Mixture Using a Synthetic Matrix, 412
Design Approaches for a Cycling Adsorbent/Photocatalyst System for Indoor Air Purification: Formaldehyde Example, 494

AERMOD
Sensitivity of Two Dispersion Models (AERMOD and ISCST3) to Input Parameters for a Rural Ground-Level Area Source, 1288

Aerosols
Effect of Gaseous Chlorine Dioxide on Indoor Microbial Contaminants, 647
EPA Supersites Program-Related Emissions-Based Particulate Matter Modeling: Initial Applications and Advances, 289
Evaluation of an Offline Method for the Analysis of Atmospheric Reactive Gaseous Mercury and Particulate Mercury, 377
Formation Characteristics of Aerosol Particles from Pulverized Coal Pyrolysis in High-Temperature Environments, 702
Particle Size Distributions and Elemental Composition of Atmospheric Particulate Matter in Southern Italy, 797
Quality Assured Measurements of Animal Building Emissions: Odor Concentrations, 806
Response of Fine Particulate Matter to Emission Changes of Oxides of Nitrogen and Anthropogenic Volatile Organic Compounds in the Eastern United States, 1463
Secondary Particulate Matter in the United States: Insights from the Particulate Matter Supersites Program and Related Studies, 234
Transport of Atmospheric Fine Particulate Matter: Part 1—Findings from Recent Field Programs on the Extent of Regional Transport within North America, 254

Agricultural Fires
Monitoring Agricultural Burning in the Mississippi River Valley Region from the Moderate Resolution Imaging Spectroradiometer (MODIS), 1235

Agriculture
The Development of Industry-Specific Odor Impact Criteria for Feedlots Using Models, 1177
Diurnal Odor, Ammonia, Hydrogen Sulfide, and Carbon Dioxide Emission Profiles of Confined Swine Grower/Finisher Rooms, 1434
Evidence of Enhanced Atmospheric Ammoniacal Nitrogen in Hells Canyon National Recreation Area: Implications for Natural and Cultural Resources, 1223
Footprints on Ammonia Concentrations from Environmental Regulations, 1158
Quality Assured Measurements of Animal Building Emissions: Odor Concentrations, 806

Air Pollution
Assessing Energy, Environmental, and Economic Tradeoffs in Intermodal Freight Transportation, 1004
Biofiltration Kinetics of a Gaseous Aldehyde Mixture Using a Synthetic Matrix, 412
Characterization of Spatially Homogeneous Regions Based on Temporal Patterns of Fine Particulate Matter in the Continental United States, 965
Continuous Carbon Dioxide Measurements in a Rural Area in the Upper Spanish Plateau, 940
Diurnal Odor, Ammonia, Hydrogen Sulfide, and Carbon Dioxide Emission Profiles of Confined Swine Grower/Finisher Rooms, 1434
Emissions Tradeoffs among Alternative Marine Fuels: Total Fuel Cycle Analysis of Residual Oil, Marine Gas Oil, and Marine Diesel Oil, 538
EPA Supersites Program-Related Emissions-Based Particulate Matter Modeling: Initial Applications and Advances, 289
Evidence of Enhanced Atmospheric Ammoniacal Nitrogen in Hells Canyon National Recreation Area: Implications for Natural and Cultural Resources, 1223
Impact of Downward-Mixing Ozone on Surface Ozone Accumulation in Southern Taiwan, 562
Investigations of Ash Fouling with Cattle Wastes as Reburn Fuel in a Small-Scale Boiler Burner under Transient Conditions, 517
The Ozone Productivity of *n*-Propyl Bromide: Part 2—An Exception to the Maximum Incremental Reactivity Scale, 891
Prospects for Future Climate Change and the Reasons for Early Action, 1386
Real-World In-Use Activity, Fuel Use, and Emissions for Nonroad Construction Vehicles: A Case Study for Excavators, 1033
Removal of Volatile Organic Compounds at Extreme Shock-Loading Using a Scaled-Up Pilot Rotating Drum Biofilter, 1407
Sensitivity of Two Dispersion Models (AERMOD and ISCST3) to Input Parameters for a Rural Ground-Level Area Source, 1288

Air Quality
Air Quality Impacts of Distributed Energy Resources Implemented in the Northeastern United States, 902
An Assessment of Air Emissions from Liquefied Natural Gas Ships Using Different Power Systems and Different Fuels, 404
Characterization of Particulate Matter for Three Sites in Kuwait, 994
Footprints on Ammonia Concentrations from Environmental Regulations, 1158
Forecasting Daily Source Air Quality Using Multivariate Statistical Analysis and Radial Basis Function Networks, 1571
Investigation of the AP-42 Sampling Method, 1422
Modeling Analyses of the Effects of Changes in Nitrogen Oxides Emissions from the Electric Power Sector on Ozone Levels in the Eastern United States, 580
A New Multipollutant, No-Threshold Air Quality Health Index Based on Short-Term Associations Observed in Daily Time-Series Analyses, 435
Real-World Vehicle Emissions: A Summary of the Seventeenth Coordinating Research Council On-Road Vehicle Emissions Workshop, 3
Response of Fine Particulate Matter to Emission Changes of Oxides of Nitrogen and Anthropogenic Volatile Organic Compounds in the Eastern United States, 1463
Single-Source Impact Analysis Using Three-Dimensional Air Quality Models, 1351
Transport of Atmospheric Fine Particulate Matter: Part 1—Findings from Recent Field Programs on the Extent of Regional Transport within North America, 254
Uncertainties in the Current Knowledge of Some Atmospheric Trace Gases Associated with U.S. Agriculture: A Review, 986

Air Quality Control
Probing Emissions of Military Cargo Aircraft: Description of a Joint Field Measurement Strategic Environmental Research and Development Program, 787

Air Quality Index
A Quantitative Approach to the Traffic Air Quality Problem: The Traffic Air Quality Index, 641

Air Quality Management
Single-Source Impact Analysis Using Three-Dimensional Air Quality Models, 1351

Air Quality Modeling
Development of North American Emission Inventories for Air Quality Modeling under Climate Change, 1483
Modeling Studies of Ammonia Dispersion and Dry Deposition at Some Hog Farms in North Carolina, 1198
Resolving Local-Scale Emissions for Modeling Air Quality near Roadways, 451
Rethinking the Assessment of Photochemical Modeling Systems in Air Quality Planning Applications, 1086

Air Quality Planning
Rethinking the Assessment of Photochemical Modeling Systems in Air Quality Planning Applications, 1086

Air Quality Studies
Fine Particulate Matter Source Apportionment for the Chemical Speciation Trends Network Site at Birmingham, Alabama, Using Positive Matrix Factorization, 27
Transport of Atmospheric Fine Particulate Matter: Part 2—Findings from Recent Field Programs on the Intraurban Variability in Fine Particulate Matter, 196

Air-Substrate Mercury (Hg) Exchange
Determination of the Potential for Release of Mercury from Combustion Product Amended Soils: Part 1—Simulations of Beneficial Use, 673

Air-Surface Exchange
Determination of the Potential for Release of Mercury from Combustion Product Amended Soils: Part 2—Coal Fly Ash Generated Stabilized Soil and Degradation Products, 1495

Air Toxics
Codependencies of Reactive Air Toxic and Criteria Pollutants on Emission Reductions, 693
Effects of a Zeolite-Selective Catalytic Reduction System on Comprehensive Emissions from a Heavy-Duty Diesel Engine, 1258
Traffic and Meteorological Impacts on Near-Road Air Quality: Summary of Methods and Trends from the Raleigh Near-Road Study, 865

Aldehydes
Biofiltration Kinetics of a Gaseous Aldehyde Mixture Using a Synthetic Matrix, 412

Algeria
On-Board Emission Measurement of High-Loaded Light-Duty Vehicles in Algeria, 45

Alternative
Characterization of Real-World Activity, Fuel Use, and Emissions for Selected Motor Graders Fueled with Petroleum Diesel and B20 Biodiesel, 1274
Emissions from Carpet Combustion in a Pilot-Scale Rotary Kiln: Comparison with Coal and Particle-Board Combustion, 1070

Ambient Air
Development of Ambient Air Quality Population-Weighted Metrics for Use in Time-Series Health Studies, 711
Impact of Downward-Mixing Ozone on Surface Ozone Accumulation in Southern Taiwan, 562

Ambient Air Pollution
Development of Ambient Air Quality Population-Weighted Metrics for Use in Time-Series Health Studies, 711

Ammonia
Air Emissions of Ammonia and Methane from Livestock Operations: Valuation and Policy Options, 1117
Back-Trajectory Analysis and Source-Receptor Relationships: Particulate Matter and Nitrogen Isotopic Composition in Rainwater, 1215
Conversion of Methane to Liquid Products, Hydrogen, and Ammonia with Environmentally Friendly Condition-Based Microgap Discharge, 1616
Footprints on Ammonia Concentrations from Environmental Regulations, 1158
Measurement, Analysis, and Modeling of Fine Particulate Matter in Eastern North Carolina, 1208
Seasonal and Spatial Variations of Ammonia Emissions from an Open-Lot Dairy Operation, 369

Ammonia Deposition
Modeling Studies of Ammonia Dispersion and Dry Deposition at Some Hog Farms in North Carolina, 1198

Ammonia Emission
Characterizing Ammonia Emissions from Swine Farms in Eastern North Carolina: Part 2—Potential Environmentally Superior Technologies for Waste Treatment, 1145

Anaerobic Treatment
Anaerobic Bioconversion of Carbon Dioxide to Biogas in an Upflow Anaerobic Sludge Blanket Reactor, 95

Analytical Methods
Development of a Novel Odor Measurement System Using Gas Chromatography with Surface Acoustic Wave Sensor, 1522
Hot Filter/Impinger and Dilution Sampling for Fine Particulate Matter Characterization from Ferrous Metal Casting Processes, 553

Anchorage
Characterization of Ambient Fine Particles in the Northwestern Area and Anchorage, Alaska, 1328

AP-42
Investigation of the AP-42 Sampling Method, 1422

Ash Fouling
Investigations of Ash Fouling with Cattle Wastes as Reburn Fuel in a Small-Scale Boiler Burner under Transient Conditions, 517

Assessment
An Assessment of Air Emissions from Liquefied Natural Gas Ships Using Different Power Systems and Different Fuels, 404
Estimating Net Changes in Life-Cycle Emissions from Adoption of Emerging Civil Infrastructure Technologies, 55
Wind Direction Bias in Generating Wind Roses and Conducting Sector-Based Air Dispersion Modeling, 913

Asthma
Generation and Characterization of Diesel Exhaust in a Facility for Controlled Human Exposures, 829

Atmospheric Chemistry
Key Scientific Findings and Policy- and Health-Relevant Insights from the U.S. Environmental Protection Agency's Particulate Matter Supersites Program and Related Studies: An Integration and Synthesis of Results, S-3
The Ozone Productivity of *n*-Propyl Bromide: Part 2—An Exception to the Maximum Incremental Reactivity Scale, 891
Response of Fine Particulate Matter to Emission Changes of Oxides of Nitrogen and Anthropogenic Volatile Organic Compounds in the Eastern United States, 1463
Secondary Particulate Matter in the United States: Insights from the Particulate Matter Supersites Program and Related Studies, 234
The U.S. Environmental Protection Agency's Particulate Matter Supersites Program: An Integrated Synthesis of Scientific Findings and Policy- and Health-Relevant Insights, S-1

Atmospheric N Gases
Uncertainties in the Current Knowledge of Some Atmospheric Trace Gases Associated with U.S. Agriculture: A Review, 986

Atmospheric Polycyclic Aromatic Hydrocarbons (APCS)
Effects of Open Burning of Rice Straw on Concentrations of Atmospheric Polycyclic Aromatic Hydrocarbons in Central Taiwan, 1318

Attainment Demonstration
Rethinking the Assessment of Photochemical Modeling Systems in Air Quality Planning Applications, 1086

Australian Air Quality Forecasting System (AAQFS)
The Australian Air Quality Forecasting System: The Use of Green Scenarios of Motor Vehicle Usage as an Educational Tool, 858

Automotive
The Longitudinal Dependence of Black Carbon Concentration on Traffic Volume in an Urban Environment, 928
On-Board Emission Measurement of High-Loaded Light-Duty Vehicles in Algeria, 45

Backward Lagrangian Stochastic Model
Estimating Gas Emissions from Multiple Sources Using a Backward Lagrangian Stochastic Model, 1415

Backward Trajectories
Particle Size Distributions and Elemental Composition of Atmospheric Particulate Matter in Southern Italy, 797

Barn Ammonia Emissions
Characterizing Ammonia Emissions from Swine Farms in Eastern North Carolina: Part 1—Conventional Lagoon and Spray Technology for Waste Treatment, 1130

Barns
Characterizing Ammonia Emissions from Swine Farms in Eastern North Carolina: Part 2—Potential Environmentally Superior Technologies for Waste Treatment, 1145

Beijing
A Modeling Study of Coarse Particulate Matter Pollution in Beijing: Regional Source Contributions and Control Implications for the 2008 Summer Olympics, 1057

Bioaerosols
Seasonal and Diurnal Variability in Airborne Mold from an Indoor Residential Environment in Northern New York, 684

Biochemical Methane Potential (BMP)
Estimate of the Pollution Removed by Leaching of Standard Domestic Waste: Mass Assessments Carried Out in Batches and Columns, 1529

Biofilter
Treatment of Propylene Glycol Monomethyl Ether Acetate in Air Streams by a Biofilter Packed with Fern Chips, 1590

Biofiltration
Biofiltration Kinetics of a Gaseous Aldehyde Mixture Using a Synthetic Matrix, 412
Toluene Removal Biofilter Modeling, 947

Biogas
Anaerobic Bioconversion of Carbon Dioxide to Biogas in an Upflow Anaerobic Sludge Blanket Reactor, 95
Estimate of the Pollution Removed by Leaching of Standard Domestic Waste: Mass Assessments Carried Out in Batches and Columns, 1529

Biological Treatment
Removal of Volatile Organic Compounds at Extreme Shock-Loading Using a Scaled-Up Pilot Rotating Drum Biofilter, 1407
Toluene Removal Biofilter Modeling, 947

Biomass
Investigations of Ash Fouling with Cattle Wastes as Reburn Fuel in a Small-Scale Boiler Burner under Transient Conditions, 517

Bioreactor Landfill
Methane Balance of a Bioreactor Landfill in Latin America, 620

Black Carbon
Estimates of Black Carbon and Size-Resolved Particle Number Emission Factors from Residential Wood Burning Based on Ambient Monitoring and Model Simulations, 838
Surface Functional Characteristics (C, O, S) of Waste Tire-Derived Carbon Black before and after Steam Activation, 78

Boundary Layer
Impact of Downward-Mixing Ozone on Surface Ozone Accumulation in Southern Taiwan, 562

Calculation Methods
The Ozone Productivity of *n*-Propyl Bromide: Part 2—An Exception to the Maximum Incremental Reactivity Scale, 891

Carbon Dioxide (CO_2)
Anaerobic Bioconversion of Carbon Dioxide to Biogas in an Upflow Anaerobic Sludge Blanket Reactor, 95
Continuous Carbon Dioxide Measurements in a Rural Area in the Upper Spanish Plateau, 940

Carbon Monitors
Measurement of Fine Particulate Matter Nonvolatile and Semi-Volatile Organic Material with the Sunset Laboratory Carbon Aerosol Monitor, 72

Carbonaceous Material
Measurement of Fine Particulate Matter Nonvolatile and Semi-Volatile Organic Material with the Sunset Laboratory Carbon Aerosol Monitor, 72

Carpet
Emissions from Carpet Combustion in a Pilot-Scale Rotary Kiln: Comparison with Coal and Particle-Board Combustion, 1070

Catalytic Conversion
Study on the Indoor Volatile Organic Compound Treatment and Performance Assessment with TiO_2/MCM-41 and TiO_2/Quartz Photoreactor under Ultraviolet Irradiation, 1266

Chemical Analysis
What Have We Learned from Highly Time-Resolved Measurements during EPA's Supersites Program and Related Studies?, 303

Chemical Characterization
Key Scientific Findings and Policy- and Health-Relevant Insights from the U.S. Environmental Protection Agency's Particulate Matter Supersites Program and Related Studies: An Integration and Synthesis of Results, S-3
The U.S. Environmental Protection Agency's Particulate Matter Supersites Program: An Integrated Synthesis of Scientific Findings and Policy- and Health-Relevant Insights, S-1

Chemical Composition
Synopsis of the Temporal Variation of Particulate Matter Composition and Size, 216

Chemical Mass Balance (CMB)
Source Apportionment: Findings from the U.S. Supersites Program, 265

Chemical Speciation
Effects of a Zeolite-Selective Catalytic Reduction System on Comprehensive Emissions from a Heavy-Duty Diesel Engine, 1258

Chlor-alkali
Development of a Regenerable System Employing Silica-Titania Composites for the Recovery of Mercury from End-Box Exhaust at a Chlor-Alkali Facility, 530

Chromite Ore Processing Residue (COPR)
Soil Suspension/Dispersion Modeling Methods for Estimating Health-Based Soil Cleanup Levels of Hexavalent Chromium at Chromite Ore Processing Residue Sites, 384

Clean Air Act Amendments
Emission Projections for the U.S. Environmental Protection Agency Section 812 Second Prospective Clean Air Act Cost/Benefit Analysis, 657

Climate Change
Continuous Carbon Dioxide Measurements in a Rural Area in the Upper Spanish Plateau, 940
Greenhouse Gas Mitigation-Induced Rough-Interval Programming for Municipal Solid Waste Management, 1546
Prospects for Future Climate Change and the Reasons for Early Action, 1386

Cluster Analysis
Characterization of Spatially Homogeneous Regions Based on Temporal Patterns of Fine Particulate Matter in the Continental United States, 965

Coal
Investigations of Ash Fouling with Cattle Wastes as Reburn Fuel in a Small-Scale Boiler Burner under Transient Conditions, 517

Coal Burning Facilities
Investigations of Ash Fouling with Cattle Wastes as Reburn Fuel in a Small-Scale Boiler Burner under Transient Conditions, 517

Coal Combustion Byproducts
Determination of the Potential for Release of Mercury from Combustion Product Amended Soils: Part 1—Simulations of Beneficial Use, 673
Determination of the Potential for Release of Mercury from Combustion Product Amended Soils: Part 2—Coal Fly Ash Generated Stabilized Soil and Degradation Products, 1495

Coal-Fired Power Plant
Performance of Copper Chloride-Impregnated Sorbents on Mercury Vapor Control in an Entrained-Flow Reactor System, 1458

Coal Mining
Effect of Meteorological Parameters on Fine and Coarse Particulate Matter Mass Concentration in a Coal-Mining Area in Zonguldak, Turkey, 543

Coastal Boundary Layer
Particle Size Distributions and Elemental Composition of Atmospheric Particulate Matter in Southern Italy, 797

Columns
Estimate of the Pollution Removed by Leaching of Standard Domestic Waste: Mass Assessments Carried Out in Batches and Columns, 1529

Combustion
An Assessment of Air Emissions from Liquefied Natural Gas Ships Using Different Power Systems and Different Fuels, 404
Investigations of Ash Fouling with Cattle Wastes as Reburn Fuel in a Small-Scale Boiler Burner under Transient Conditions, 517
Mercury Oxidation Promoted by a Selective Catalytic Reduction Catalyst under Simulated Powder River Basin Coal Combustion Conditions, 484
Real-World In-Use Activity, Fuel Use, and Emissions for Nonroad Construction Vehicles: A Case Study for Excavators, 1033

Community-Based Research
Pesticides in Urban Multiunit Dwellings: Hazard Identification Using Classification and Regression Tree (CART) Analysis, 1297

Concentrated Animal Feeding Operation (CAFO)
Air Emissions of Ammonia and Methane from Livestock Operations: Valuation and Policy Options, 1117

Condensable Particulate Matter
Hot Filter/Impinger and Dilution Sampling for Fine Particulate Matter Characterization from Ferrous Metal Casting Processes, 553

Condition Number
Estimating Gas Emissions from Multiple Sources Using a Backward Lagrangian Stochastic Model, 1415

Continuous Measurements
Advances in Integrated and Continuous Measurements for Particle Mass and Chemical Composition, 141

Control Strategies
Codependencies of Reactive Air Toxic and Criteria Pollutants on Emission Reductions, 693
Emission Projections for the U.S. Environmental Protection Agency Section 812 Second Prospective Clean Air Act Cost/Benefit Analysis, 657
Modeling Analyses of the Effects of Changes in Nitrogen Oxides Emissions from the Electric Power Sector on Ozone Levels in the Eastern United States, 580

Control Technologies
Mercury Oxidation Promoted by a Selective Catalytic Reduction Catalyst under Simulated Powder River Basin Coal Combustion Conditions, 484

Corona
Control of Diesel Gaseous and Particulate Emissions with a Tube-Type Wet Electrostatic Precipitator, 1311

Cost-Benefit
Air Emissions of Ammonia and Methane from Livestock Operations: Valuation and Policy Options, 1117

Critical Review
2008 Critical Review: Prospects for Future Climate Change and the Reasons for Early Action, 735
2008 Critical Review Discussion: Prospects for Future Climate Change and the Reasons for Early Action, 1386
Introduction to the 2008 Critical Review: Prospects for Future Climate Change and the Reasons for Early Action, 730

Croplands
Monitoring Agricultural Burning in the Mississippi River Valley Region from the Moderate Resolution Imaging Spectroradiometer (MODIS), 1235

Cyfluthrin
Pesticides in Urban Multiunit Dwellings: Hazard Identification Using Classification and Regression Tree (CART) Analysis, 1297

Dairy
Seasonal and Spatial Variations of Ammonia Emissions from an Open-Lot Dairy Operation, 369

Dairy Manure
Chemical-Sensory Characterization of Dairy Manure Odor Using Headspace Solid-Phase Microextraction and Multidimensional Gas Chromatography Mass Spectrometry-Olfactometry, 1187

Deactivation
Deactivation of Titanium Dioxide Photocatalyst by Oxidation of Polydimethylsiloxane and Silicon Sealant Off-Gas in a Recirculating Batch Reactor, 12

Decision-Making
Subregion Districting Analysis for Municipal Solid Waste Collection Privatization, 104

Deposition
Uncertainties in the Current Knowledge of Some Atmospheric Trace Gases Associated with U.S. Agriculture: A Review, 986

Determinants
Pesticides in Urban Multiunit Dwellings: Hazard Identification Using Classification and Regression Tree (CART) Analysis, 1297

DIAL
Direct Measurement of Fugitive Emissions of Hydrocarbons from a Refinery, 1047

Diesel Exhaust
Generation and Characterization of Diesel Exhaust in a Facility for Controlled Human Exposures, 829
Effects of Driving Conditions on Diesel Exhaust Particulates, 1077

Diesel Particulate Matter (DPM)
Control of Diesel Gaseous and Particulate Emissions with a Tube-Type Wet Electrostatic Precipitator, 1311
Generation and Characterization of Diesel Exhaust in a Facility for Controlled Human Exposures, 829

Dilution Tunnel
Hot Filter/Impinger and Dilution Sampling for Fine Particulate Matter Characterization from Ferrous Metal Casting Processes, 553

Dispersion
Modeling Studies of Ammonia Dispersion and Dry Deposition at Some Hog Farms in North Carolina, 1198

Dispersion Models
The Development of Industry-Specific Odor Impact Criteria for Feedlots Using Models, 1177
Dispersion Modeling to Compare Alternative Technologies for Odor Remediation at Swine Facilities, 1166
Sensitivity of Two Dispersion Models (AERMOD and ISCST3) to Input Parameters for a Rural Ground-Level Area Source, 1288
Wind Direction Bias in Generating Wind Roses and Conducting Sector-Based Air Dispersion Modeling, 913

Distributed Generation
Air Quality Impacts of Distributed Energy Resources Implemented in the Northeastern United States, 902

Districting Model
Subregion Districting Analysis for Municipal Solid Waste Collection Privatization, 104

Diurnal
Characterizing Ammonia Emissions from Swine Farms in Eastern North Carolina: Part 1—Conventional Lagoon and Spray Technology for Waste Treatment, 1130
Diurnal Odor, Ammonia, Hydrogen Sulfide, and Carbon Dioxide Emission Profiles of Confined Swine Grower/Finisher Rooms, 1434

Downward Mixing
Impact of Downward-Mixing Ozone on Surface Ozone Accumulation in Southern Taiwan, 562

Dry Deposition
Evaluation of an Offline Method for the Analysis of Atmospheric Reactive Gaseous Mercury and Particulate Mercury, 377

Economic Input-Output Modeling
Estimating Net Changes in Life-Cycle Emissions from Adoption of Emerging Civil Infrastructure Technologies, 55

Educational Tool
The Australian Air Quality Forecasting System: The Use of Green Scenarios of Motor Vehicle Usage as an Educational Tool, 858

Electronic Air Cleaner
Whole House Particle Removal and Clean Air Delivery Rates for In-Duct and Portable Ventilation Systems, 1474

Electric Utilities
Emission Projections for the U.S. Environmental Protection Agency Section 812 Second Prospective Clean Air Act Cost/Benefit Analysis, 657

Electrostatic Precipitator
Polycyclic Aromatic Hydrocarbon Emission Profiles and Removal Efficiency by Electrostatic Precipitator and Wetfine Scrubber in an Iron Ore Sintering Plant, 1401

Elemental/Organic Carbon
Inorganic and Carbonaceous Components in Indoor/Outdoor Particulate Matter in Two Residential Houses in Oslo, Norway, 346

Emission Controls
Effects of a Zeolite-Selective Catalytic Reduction System on Comprehensive Emissions from a Heavy-Duty Diesel Engine, 1258

Real-World Vehicle Emissions: A Summary of the Seventeenth Coordinating Research Council On-Road Vehicle Emissions Workshop, 3
Response of Fine Particulate Matter to Emission Changes of Oxides of Nitrogen and Anthropogenic Volatile Organic Compounds in the Eastern United States, 1463

Emission Factor
Seasonal and Spatial Variations of Ammonia Emissions from an Open-Lot Dairy Operation, 369

Emission Inventories
Emission Projections for the U.S. Environmental Protection Agency Section 812 Second Prospective Clean Air Act Cost/Benefit Analysis, 657
Fine Particulate Matter Emissions Inventories: Comparisons of Emissions Estimates with Observations from Recent Field Programs, 320
Multimedia Emissions Inventory of Polychlorinated Biphenyls for the U.S. Great Lakes States, 1022
Preliminary Investigation of Greenhouse Gas Emissions from the Environmental Sector in Taiwan, 85
Resolving Local-Scale Emissions for Modeling Air Quality near Roadways, 451

Emission Rates
Direct Measurement of Fugitive Emissions of Hydrocarbons from a Refinery, 1047

Emissions
Assessing Energy, Environmental, and Economic Tradeoffs in Intermodal Freight Transportation, 1004
An Assessment of Air Emissions from Liquefied Natural Gas Ships Using Different Power Systems and Different Fuels, 404
Direct Measurement of Fugitive Emissions of Hydrocarbons from a Refinery, 1047
Fine Particulate Matter Emissions Inventories: Comparisons of Emissions Estimates with Observations from Recent Field Programs, 320
Forecasting Daily Source Air Quality Using Multivariate Statistical Analysis and Radial Basis Function Networks, 1571
The Longitudinal Dependence of Black Carbon Concentration on Traffic Volume in an Urban Environment, 928
Mercury Oxidation Promoted by a Selective Catalytic Reduction Catalyst under Simulated Powder River Basin Coal Combustion Conditions, 484
Metal Oxides Remove Hydrogen Sulfide from Landfill Gas Produced from Waste Mixed with Plaster Board under Wet Conditions, 1014
Methane Balance of a Bioreactor Landfill in Latin America, 620
On-Board Emission Measurement of High-Loaded Light-Duty Vehicles in Algeria, 45
Quality Assured Measurements of Animal Building Emissions: Odor Concentrations, 806
Real-World In-Use Activity, Fuel Use, and Emissions for Nonroad Construction Vehicles: A Case Study for Excavators, 1033

Emissions Characterization
Characterization of Real-World Activity, Fuel Use, and Emissions for Selected Motor Graders Fueled with Petroleum Diesel and B20 Biodiesel, 1274
Development of a Novel Odor Measurement System Using Gas Chromatography with Surface Acoustic Wave Sensor, 1522
Diurnal Odor, Ammonia, Hydrogen Sulfide, and Carbon Dioxide Emission Profiles of Confined Swine Grower/Finisher Rooms, 1434
Emissions from Carpet Combustion in a Pilot-Scale Rotary Kiln: Comparison with Coal and Particle-Board Combustion, 1070
Fine Particulate Matter Emissions Inventories: Comparisons of Emissions Estimates with Observations from Recent Field Programs, 320
Fine Particulate Matter Source Apportionment for the Chemical Speciation Trends Network Site at Birmingham, Alabama, Using Positive Matrix Factorization, 27
Hot Filter/Impinger and Dilution Sampling for Fine Particulate Matter Characterization from Ferrous Metal Casting Processes, 553

Emissions Impacts
Single-Source Impact Analysis Using Three-Dimensional Air Quality Models, 1351

Energy Recovery
Feasibility of Landfill Gas as a Liquefied Natural Gas Fuel Source for Refuse Trucks, 613

Engine Load
Effects of Driving Conditions on Diesel Exhaust Particulates, 1077

Engine Speed
Effects of Driving Conditions on Diesel Exhaust Particulates, 1077

Environmental Management
Footprints on Ammonia Concentrations from Environmental Regulations, 1158

Environmental Transport
Wind Direction Bias in Generating Wind Roses and Conducting Sector-Based Air Dispersion Modeling, 913

Environmentally Superior Technologies (ESTs)
Characterizing Ammonia Emissions from Swine Farms in Eastern North Carolina: Part 2—Potential Environmentally Superior Technologies for Waste Treatment, 1145

Epidemiology
A New Multipollutant, No-Threshold Air Quality Health Index Based on Short-Term Associations Observed in Daily Time-Series Analyses, 435

Exposure Parameters
The Longitudinal Dependence of Black Carbon Concentration on Traffic Volume in an Urban Environment, 928

Feedlot Emissions
The Development of Industry-Specific Odor Impact Criteria for Feedlots Using Models, 1177

Fern Chips
Treatment of Propylene Glycol Monomethyl Ether Acetate in Air Streams by a Biofilter Packed with Fern Chips, 1590

Field Tests
Development of a Field Test Method to Evaluate Gaseous Air Cleaner Performance in a Multizone Building, 919

Fine Particulate Matter ($PM_{2.5}$)
Development of Ambient Air Quality Population-Weighted Metrics for Use in Time-Series Health Studies, 711

Fine Particulate Matter Supersites
Transport of Atmospheric Fine Particulate Matter: Part 1—Findings from Recent Field Programs on the Extent of Regional Transport within North America, 254

Flue Gases
Mercury Oxidation Promoted by a Selective Catalytic Reduction Catalyst under Simulated Powder River Basin Coal Combustion Conditions, 484

Flux Chamber
Seasonal and Spatial Variations of Ammonia Emissions from an Open-Lot Dairy Operation, 369

Forecast
Evaluation of the Mesoscale Meteorological Model (MM5)-Community Multi-Scale Air Quality Model (CMAQ) Performance in Hindcast and Forecast of Ground-Level Ozone, 1341

Forensic Investigation
Applications of Open-Path Fourier Transform Infrared for Identification of Volatile Organic Compound Pollution Sources and Characterization of Source Emission Behaviors, 821

Fossil
An Assessment of Air Emissions from Liquefied Natural Gas Ships Using Different Power Systems and Different Fuels, 404

Freeways
Measurements of Ultrafine Particles and Other Vehicular Pollutants inside a Mobile Exposure System on Los Angeles Freeways, 424

Freight Transportation
Assessing Energy, Environmental, and Economic Tradeoffs in Intermodal Freight Transportation, 1004

Fuel Source
Feasibility of Landfill Gas as a Liquefied Natural Gas Fuel Source for Refuse Trucks, 613

Fuels
An Assessment of Air Emissions from Liquefied Natural Gas Ships Using Different Power Systems and Different Fuels, 404
Characterization of Real-World Activity, Fuel Use, and Emissions for Selected Motor Graders Fueled with Petroleum Diesel and B20 Biodiesel, 1274

Fugitive Emissions
Applications of Open-Path Fourier Transform Infrared for Identification of Volatile Organic Compound Pollution Sources and Characterization of Source Emission Behaviors, 821
Direct Measurement of Fugitive Emissions of Hydrocarbons from a Refinery, 1047

Fungi
Seasonal and Diurnal Variability in Airborne Mold from an Indoor Residential Environment in Northern New York, 684

Future Emission Inventories
Development of North American Emission Inventories for Air Quality Modeling under Climate Change, 1483

Gas-Phase Pollutants
Air and Groundwater Pollution in an Agricultural Region of the Turkish Mediterranean Coast, 1240

Gaseous Air Cleaners
Development of a Field Test Method to Evaluate Gaseous Air Cleaner Performance in a Multizone Building, 919

Gaseous Emissions Data
Characterization of Particulate Matter and Gaseous Emissions of a C-130H Aircraft, 474

Gases
Anaerobic Bioconversion of Carbon Dioxide to Biogas in an Upflow Anaerobic Sludge Blanket Reactor, 95
Continuous Carbon Dioxide Measurements in a Rural Area in the Upper Spanish Plateau, 940
Emissions Tradeoffs among Alternative Marine Fuels: Total Fuel Cycle Analysis of Residual Oil, Marine Gas Oil, and Marine Diesel Oil, 538
Estimating Gas Emissions from Multiple Sources Using a Backward Lagrangian Stochastic Model, 1415

β-Gauge
Nonlinear Regression Adjustments of Multiple Continuous Monitoring Methods Produce Effective Characterization of Short-Term Fine Particulate Matter, 812

Geographical Information System (GIS)
Air Pollution Directional Risk Assessment for Siting a Landfill, 1539
Theoretical Evaluation of a Method for Locating Gaseous Emission Hot Spots, 1100

Global Climate Change
Development of North American Emission Inventories for Air Quality Modeling under Climate Change, 1483

Global Warming
Prospects for Future Climate Change and the Reasons for Early Action, 1386

Great Lakes
Multimedia Emissions Inventory of Polychlorinated Biphenyls for the U.S. Great Lakes States, 1022

Green Scenarios
The Australian Air Quality Forecasting System: The Use of Green Scenarios of Motor Vehicle Usage as an Educational Tool, 858

Greenhouse Gas (GHG) Emissions
Air Emissions of Ammonia and Methane from Livestock Operations: Valuation and Policy Options, 1117
Anaerobic Bioconversion of Carbon Dioxide to Biogas in an Upflow Anaerobic Sludge Blanket Reactor, 95
Continuous Carbon Dioxide Measurements in a Rural Area in the Upper Spanish Plateau, 940
Emissions Tradeoffs among Alternative Marine Fuels: Total Fuel Cycle Analysis of Residual Oil, Marine Gas Oil, and Marine Diesel Oil, 538
Estimating Gas Emissions from Multiple Sources Using a Backward Lagrangian Stochastic Model, 1415
Greenhouse Gas Emission Potential of the Municipal Solid Waste Disposal Sites in Thailand, 629
Greenhouse Gas Mitigation-Induced Rough-Interval Programming for Municipal Solid Waste Management, 1546
Preliminary Investigation of Greenhouse Gas Emissions from the Environmental Sector in Taiwan, 85
Prospects for Future Climate Change and the Reasons for Early Action, 1386

Ground-Level Ozone
Evaluation of the Mesoscale Meteorological Model (MM5)-Community Multi-Scale Air Quality Model (CMAQ) Performance in Hindcast and Forecast of Ground-Level Ozone, 1341

Groundwater
Air and Groundwater Pollution in an Agricultural Region of the Turkish Mediterranean Coast, 1240

Halocarbons
The Ozone Productivity of *n*-Propyl Bromide: Part 2—An Exception to the Maximum Incremental Reactivity Scale, 891

Health Effects/Risks
Development of Ambient Air Quality Population-Weighted Metrics for Use in Time-Series Health Studies, 711
A New Multipollutant, No-Threshold Air Quality Health Index Based on Short-Term Associations Observed in Daily Time-Series Analyses, 435

Heat Transfer
Investigations of Ash Fouling with Cattle Wastes as Reburn Fuel in a Small-Scale Boiler Burner under Transient Conditions, 517

HEPA
Whole House Particle Removal and Clean Air Delivery Rates for In-Duct and Portable Ventilation Systems, 1474

Hexavalent Chromium
Soil Suspension/Dispersion Modeling Methods for Estimating Health-Based Soil Cleanup Levels of Hexavalent Chromium at Chromite Ore Processing Residue Sites, 384

Highway Vehicles
Resolving Local-Scale Emissions for Modeling Air Quality near Roadways, 451

Hindcast
Evaluation of the Mesoscale Meteorological Model (MMS)-Community Multi-Scale Air Quality Model (CMAQ) Performance in Hindcast and Forecast of Ground-Level Ozone, 1341

Hog Industry
Measurement, Analysis, and Modeling of Fine Particulate Matter in Eastern North Carolina, 1208

Hot-Spot Analysis
A Quantitative Approach to the Traffic Air Quality Problem: The Traffic Air Quality Index, 641

Human Activity
Estimating the Resuspension Rate and Residence Time of Indoor Particles, 502

Human Exposure
Estimating the Resuspension Rate and Residence Time of Indoor Particles, 502
Generation and Characterization of Diesel Exhaust in a Facility for Controlled Human Exposures, 829

Hydrocarbon
Direct Measurement of Fugitive Emissions of Hydrocarbons from a Refinery, 1047

Hydrogen
Conversion of Methane to Liquid Products, Hydrogen, and Ammonia with Environmentally Friendly Condition-Based Microgap Discharge, 1616

Indoor Air
Seasonal and Diurnal Variability in Airborne Mold from an Indoor Residential Environment in Northern New York, 684

Indoor Air Pollution
Deactivation of Titanium Dioxide Photocatalyst by Oxidation of Polydimethylsiloxane and Silicon Sealant Off-Gas in a Recirculating Batch Reactor, 12
Development of a Field Test Method to Evaluate Gaseous Air Cleaner Performance in a Multizone Building, 919
Effect of Gaseous Chlorine Dioxide on Indoor Microbial Contaminants, 647
Inorganic and Carbonaceous Components in Indoor/Outdoor Particulate Matter in Two Residential Houses in Oslo, Norway, 346
Whole House Particle Removal and Clean Air Delivery Rates for In-Duct and Portable Ventilation Systems, 1474

Indoor Air Quality
Deactivation of Titanium Dioxide Photocatalyst by Oxidation of Polydimethylsiloxane and Silicon Sealant Off-Gas in a Recirculating Batch Reactor, 12
Design Approaches for a Cycling Adsorbent/Photocatalyst System for Indoor Air Purification: Formaldehyde Example, 494

Indoor-to-Outdoor Concentration (I/O) Ratio
Inorganic and Carbonaceous Components in Indoor/Outdoor Particulate Matter in Two Residential Houses in Oslo, Norway, 346

Industrial Source Complex (ISC)
Sensitivity of Two Dispersion Models (AERMOD and ISCST3) to Input Parameters for a Rural Ground-Level Area Source, 1288

Inorganic Aerosols
Measurement, Analysis, and Modeling of Fine Particulate Matter in Eastern North Carolina, 1208

Instrumentation
What Have We Learned from Highly Time-Resolved Measurements during EPA's Supersites Program and Related Studies?, 303

Integrated Sampling
Advances in Integrated and Continuous Measurements for Particle Mass and Chemical Composition, 141

Inverse Dispersion Technique
Estimating Gas Emissions from Multiple Sources Using a Backward Lagrangian Stochastic Model, 1415

Ions
Advances in Integrated and Continuous Measurements for Particle Mass and Chemical Composition, 141

IPCC Waste Model
Estimating National Landfill Methane Emissions: An Application of the 2006 Intergovernmental Panel on Climate Change Waste Model in Panama, 636

Iron Ore Sintering Plant
Polycyclic Aromatic Hydrocarbon Emission Profiles and Removal Efficiency by Electrostatic Precipitator and Wetfine Scrubber in an Iron Ore Sintering Plant, 1401

ISORROPIA
Measurement, Analysis, and Modeling of Fine Particulate Matter in Eastern North Carolina, 1208

Isotope
Back-Trajectory Analysis and Source-Receptor Relationships: Particulate Matter and Nitrogen Isotopic Composition in Rainwater, 1215

Jet Fuel
Characterization of Particulate Matter and Gaseous Emissions of a C-130H Aircraft, 474

Kinetics
Biofiltration Kinetics of a Gaseous Aldehyde Mixture Using a Synthetic Matrix, 412

Kuwait
Characterization of Particulate Matter for Three Sites in Kuwait, 994

Lagoon
Characterizing Ammonia Emissions from Swine Farms in Eastern North Carolina: Part 2—Potential Environmentally Superior Technologies for Waste Treatment, 1145

Lagoon Ammonia Flux
Characterizing Ammonia Emissions from Swine Farms in Eastern North Carolina: Part 1—Conventional Lagoon and Spray Technology for Waste Treatment, 1130

Lagoon Surface Temperature
Characterizing Ammonia Emissions from Swine Farms in Eastern North Carolina: Part 1—Conventional Lagoon and Spray Technology for Waste Treatment, 1130

Land-Use Planning
Probing Emissions of Military Cargo Aircraft: Description of a Joint Field Measurement Strategic Environmental Research and Development Program, 787

Landfill
Batch Test Assessment of Waste-to-Energy Combustion Residues Impacts on Precipitate Formation in Landfill Leachate Collection Systems, 19
Greenhouse Gas Emission Potential of the Municipal Solid Waste Disposal Sites in Thailand, 629
Methane Oxidation in Compost-Based Landfill Cover with Vegetation during Wet and Dry Conditions in the Tropics, 603

Landfill Gas (LFG)
Estimating National Landfill Methane Emissions: An Application of the 2006 Intergovernmental Panel on Climate Change Waste Model in Panama, 636
Feasibility of Landfill Gas as a Liquefied Natural Gas Fuel Source for Refuse Trucks, 613
Metal Oxides Remove Hydrogen Sulfide from Landfill Gas Produced from Waste Mixed with Plaster Board under Wet Conditions, 1014
A Special Grouping of Papers on Landfill Gas Modeling and Management, 602

Landfill Siting
Air Pollution Directional Risk Assessment for Siting a Landfill, 1539

Latin America
Methane Balance of a Bioreactor Landfill in Latin America, 620

Leachate
Estimate of the Pollution Removed by Leaching of Standard Domestic Waste: Mass Assessments Carried Out in Batches and Columns, 1529

Leachate Collection Systems
Batch Test Assessment of Waste-to-Energy Combustion Residues Impacts on Precipitate Formation in Landfill Leachate Collection Systems, 19

Leaching Tests
Estimate of the Pollution Removed by Leaching of Standard Domestic Waste: Mass Assessments Carried Out in Batches and Columns, 1529

Life-Cycle Analysis
Emissions Tradeoffs among Alternative Marine Fuels: Total Fuel Cycle Analysis of Residual Oil, Marine Gas Oil, and Marine Diesel Oil, 538

Life-Cycle Emissions
Estimating Net Changes in Life-Cycle Emissions from Adoption of Emerging Civil Infrastructure Technologies, 55

Light-Duty Vehicle
On-Board Emission Measurement of High-Loaded Light-Duty Vehicles in Algeria, 45

Linear Programming
Factors Influencing Regional Municipal Solid Waste Management Strategies, 957

Liquefied Natural Gas (LFG)
Feasibility of Landfill Gas as a Liquefied Natural Gas Fuel Source for Refuse Trucks, 613
A Special Grouping of Papers on Landfill Gas Modeling and Management, 602

Liquid Products
Conversion of Methane to Liquid Products, Hydrogen, and Ammonia with Environmentally Friendly Condition-Based Microgap Discharge, 1616

Manure Management
Air Emissions of Ammonia and Methane from Livestock Operations: Valuation and Policy Options, 1117

Marine Emissions
Emissions Tradeoffs among Alternative Marine Fuels: Total Fuel Cycle Analysis of Residual Oil, Marine Gas Oil, and Marine Diesel Oil, 538

Mass
Advances in Integrated and Continuous Measurements for Particle Mass and Chemical Composition, 141

Mass- and Number-Based DPM Removal
Control of Diesel Gaseous and Particulate Emissions with a Tube-Type Wet Electrostatic Precipitator, 1311

Materials Separation
Study on the Indoor Volatile Organic Compound Treatment and Performance Assessment with TiO_2/MCM-41 and TiO_2/Quartz Photoreactor under Ultraviolet Irradiation, 1266

Measurement Techniques
Development of a Field Test Method to Evaluate Gaseous Air Cleaner Performance in a Multizone Building, 919
Evaluation of the Use of Diffusive Air Samplers for Determining Temporal and Spatial Variation of Volatile Organic Compounds in the Ambient Air of Urban Communities, 1303
On-Board Emission Measurement of High-Loaded Light-Duty Vehicles in Algeria, 45
Quality Assured Measurements of Animal Building Emissions: Odor Concentrations, 806

Mercury (Hg)
Determination of the Potential for Release of Mercury from Combustion Product Amended Soils: Part 1—Simulations of Beneficial Use, 673
Determination of the Potential for Release of Mercury from Combustion Product Amended Soils: Part 2—Coal Fly Ash Generated Stabilized Soil and Degradation Products, 1495
Development of a Regenerable System Employing Silica-Titania Composites for the Recovery of Mercury from End-Box Exhaust at a Chlor-Alkali Facility, 530
Evaluation of an Offline Method for the Analysis of Atmospheric Reactive Gaseous Mercury and Particulate Mercury, 377

Mercury (Hg) Control
Performance of Copper Chloride-Impregnated Sorbents on Mercury Vapor Control in an Entrained-Flow Reactor System, 1458

Mercury (Hg) Removal
Mercury Oxidation Promoted by a Selective Catalytic Reduction Catalyst under Simulated Powder River Basin Coal Combustion Conditions, 484

Metallic Filters
Metal Oxides Remove Hydrogen Sulfide from Landfill Gas Produced from Waste Mixed with Plaster Board under Wet Conditions, 1014

Meteorology
Effect of Meteorological Parameters on Fine and Coarse Particulate Matter Mass Concentration in a Coal-Mining Area in Zonguldak, Turkey, 543

Methane (CH_4)
Anaerobic Bioconversion of Carbon Dioxide to Biogas in an Upflow Anaerobic Sludge Blanket Reactor, 95
Estimating Gas Emissions from Multiple Sources Using a Backward Lagrangian Stochastic Model, 1415
Methane Balance of a Bioreactor Landfill in Latin America, 620
Methane Oxidation in Compost-Based Landfill Cover with Vegetation during Wet and Dry Conditions in the Tropics, 603
Conversion of Methane to Liquid Products, Hydrogen, and Ammonia with Environmentally Friendly Condition-Based Microgap Discharge, 1616

Methane (CH_4) Oxidation
Methane Oxidation in Compost-Based Landfill Cover with Vegetation during Wet and Dry Conditions in the Tropics, 603

Methods Development and Evaluation
Key Scientific Findings and Policy- and Health-Relevant Insights from the U.S. Environmental Protection Agency's Particulate Matter Supersites Program and Related Studies: An Integration and Synthesis of Results, S-3
The U.S. Environmental Protection Agency's Particulate Matter Supersites Program: An Integrated Synthesis of Scientific Findings and Policy- and Health-Relevant Insights, S-1

Metropolitan Areas
Differences between Weekday and Weekend Air Pollutant Levels in Atlanta; Baltimore; Chicago; Dallas–Fort Worth; Denver; Houston; New York; Phoenix; Washington, DC; and Surrounding Areas, 1598
Transport of Atmospheric Fine Particulate Matter: Part 2—Findings from Recent Field Programs on the Intraurban Variability in Fine Particulate Matter, 196

Microgap Discharge
Conversion of Methane to Liquid Products, Hydrogen, and Ammonia with Environmentally Friendly Condition-Based Microgap Discharge, 1616

Military Aircraft Emissions
Characterization of Particulate Matter and Gaseous Emissions of a C-130H Aircraft, 474
Probing Emissions of Military Cargo Aircraft: Description of a Joint Field Measurement Strategic Environmental Research and Development Program, 787

Mini-Constant Volume Sampling (CVS)
On-Board Emission Measurement of High-Loaded Light-Duty Vehicles in Algeria, 45

Mississippi River Valley
Monitoring Agricultural Burning in the Mississippi River Valley Region from the Moderate Resolution Imaging Spectroradiometer (MODIS), 1235

Mitigation Plan
Preliminary Investigation of Greenhouse Gas Emissions from the Environmental Sector in Taiwan, 85

MM5-CMAQ
Evaluation of the Mesoscale Meteorological Model (MM5)-Community Multi-Scale Air Quality Model (CMAQ) Performance in Hindcast and Forecast of Ground-Level Ozone, 1341

Mobile Emissions
Comparison of Speciation Sampler and PC-BOSS Fine Particulate Matter Organic Material Results Obtained in Lindon, Utah, during Winter 2001–2002, 65

Mobile Laboratory
Measurements of Ultrafine Particles and Other Vehicular Pollutants inside a Mobile Exposure System on Los Angeles Freeways, 424

Mobile Sources
Assessing Energy, Environmental, and Economic Tradeoffs in Intermodal Freight Transportation, 1004
Characterization of Real-World Activity, Fuel Use, and Emissions for Selected Motor Graders Fueled with Petroleum Diesel and B20 Biodiesel, 1274
Effects of a Zeolite-Selective Catalytic Reduction System on Comprehensive Emissions from a Heavy-Duty Diesel Engine, 1258
Emission Projections for the U.S. Environmental Protection Agency Section 812 Second Prospective Clean Air Act Cost/Benefit Analysis, 657
Emissions Tradeoffs among Alternative Marine Fuels: Total Fuel Cycle Analysis of Residual Oil, Marine Gas Oil, and Marine Diesel Oil, 538
The Longitudinal Dependence of Black Carbon Concentration on Traffic Volume in an Urban Environment, 928
Real-World In-Use Activity, Fuel Use, and Emissions for Nonroad Construction Vehicles: A Case Study for Excavators, 1033
Traffic and Meteorological Impacts on Near-Road Air Quality: Summary of Methods and Trends from the Raleigh Near-Road Study, 865

Model Evaluation
Rethinking the Assessment of Photochemical Modeling Systems in Air Quality Planning Applications, 1086

Modeling
Air Quality Impacts of Distributed Energy Resources Implemented in the Northeastern United States, 902
Assessing Energy, Environmental, and Economic Tradeoffs in Intermodal Freight Transportation, 1004
Codependencies of Reactive Air Toxic and Criteria Pollutants on Emission Reductions, 693
EPA Supersites Program-Related Emissions-Based Particulate Matter Modeling: Initial Applications and Advances, 289
Fine Particulate Matter Source Apportionment for the Chemical Speciation Trends Network Site at Birmingham, Alabama, Using Positive Matrix Factorization, 27
Footprints on Ammonia Concentrations from Environmental Regulations, 1158
Measurement, Analysis, and Modeling of Fine Particulate Matter in Eastern North Carolina, 1208
Modeling Analyses of the Effects of Changes in Nitrogen Oxides Emissions from the Electric Power Sector on Ozone Levels in the Eastern United States, 580
Response of Fine Particulate Matter to Emission Changes of Oxides of Nitrogen and Anthropogenic Volatile Organic Compounds in the Eastern United States, 1463

Wind Direction Bias in Generating Wind Roses and Conducting Sector-Based Air Dispersion Modeling, 913

Models-3/CMAQ
A Modeling Study of Coarse Particulate Matter Pollution in Beijing: Regional Source Contributions and Control Implications for the 2008 Summer Olympics, 1057

MODIS
Monitoring Agricultural Burning in the Mississippi River Valley Region from the Moderate Resolution Imaging Spectroradiometer (MODIS), 1235

Monitoring
Evaluation of the Use of Diffusive Air Samplers for Determining Temporal and Spatial Variation of Volatile Organic Compounds in the Ambient Air of Urban Communities, 1303
What Have We Learned from Highly Time-Resolved Measurements during EPA's Supersites Program and Related Studies?, 303

Monitoring Network
Evaluation of an Offline Method for the Analysis of Atmospheric Reactive Gaseous Mercury and Particulate Mercury, 377

Motor Vehicles
Characterization of Real-World Activity, Fuel Use, and Emissions for Selected Motor Graders Fueled with Petroleum Diesel and B20 Biodiesel, 1274

Multidimensional GC-MS-Olfactometry
Chemical-Sensory Characterization of Dairy Manure Odor Using Headspace Solid-Phase Microextraction and Multidimensional Gas Chromatography Mass Spectrometry-Olfactometry, 1187

Multimedia
Multimedia Emissions Inventory of Polychlorinated Biphenyls for the U.S. Great Lakes States, 1022

Multiple Sources
Estimating Gas Emissions from Multiple Sources Using a Backward Lagrangian Stochastic Model, 1415

Multipollutants
Codependencies of Reactive Air Toxic and Criteria Pollutants on Emission Reductions, 693
Development of North American Emission Inventories for Air Quality Modeling under Climate Change, 1483

Municipal Solid Waste (MSW)
Batch Test Assessment of Waste-to-Energy Combustion Residues Impacts on Precipitate Formation in Landfill Leachate Collection Systems, 19
Factors Influencing Regional Municipal Solid Waste Management Strategies, 957
Greenhouse Gas Emission Potential of the Municipal Solid Waste Disposal Sites in Thailand, 629
Greenhouse Gas Mitigation-Induced Rough-Interval Programming for Municipal Solid Waste Management, 1546
A Special Grouping of Papers on Landfill Gas Modeling and Management, 602

***n*-Alkanes**
Control of Diesel Gaseous and Particulate Emissions with a Tube-Type Wet Electrostatic Precipitator, 1311

Nanoscale
Formation Characteristics of Aerosol Particles from Pulverized Coal Pyrolysis in High-Temperature Environments, 702

Near-Road
Characterization of Near-Road Pollutant Gradients Using Path-Integrated Optical Remote Sensing, 879
Traffic and Meteorological Impacts on Near-Road Air Quality: Summary of Methods and Trends from the Raleigh Near-Road Study, 865

Nephelometer
Nonlinear Regression Adjustments of Multiple Continuous Monitoring Methods Produce Effective Characterization of Short-Term Fine Particulate Matter, 812

Nitrates
Back-Trajectory Analysis and Source-Receptor Relationships: Particulate Matter and Nitrogen Isotopic Composition in Rainwater, 1215

Nitrogen Oxides
Characterization of Near-Road Pollutant Gradients Using Path-Integrated Optical Remote Sensing, 879
Effects of a Zeolite-Selective Catalytic Reduction System on Comprehensive Emissions from a Heavy-Duty Diesel Engine, 1258
Modeling Analyses of the Effects of Changes in Nitrogen Oxides Emissions from the Electric Power Sector on Ozone Levels in the Eastern United States, 580
Real-World In-Use Activity, Fuel Use, and Emissions for Nonroad Construction Vehicles: A Case Study for Excavators, 1033

Nonattainment
A Quantitative Approach to the Traffic Air Quality Problem: The Traffic Air Quality Index, 641

Nonmethane Hydrocarbons
Toluene Removal Biofilter Modeling, 947

Number Concentration
Effects of Driving Conditions on Diesel Exhaust Particulates, 1077

Odors
Chemical-Sensory Characterization of Dairy Manure Odor Using Headspace Solid-Phase Microextraction and Multidimensional Gas Chromatography Mass Spectrometry-Olfactometry, 1187
Development of a Novel Odor Measurement System Using Gas Chromatography with Surface Acoustic Wave Sensor, 1522
The Development of Industry-Specific Odor Impact Criteria for Feedlots Using Models, 1177
Dispersion Modeling to Compare Alternative Technologies for Odor Remediation at Swine Facilities, 1166
Diurnal Odor, Ammonia, Hydrogen Sulfide, and Carbon Dioxide Emission Profiles of Confined Swine Grower/Finisher Rooms, 1434
Metal Oxides Remove Hydrogen Sulfide from Landfill Gas Produced from Waste Mixed with Plaster Board under Wet Conditions, 1014
Quality Assured Measurements of Animal Building Emissions: Odor Concentrations, 806

Olympic Games
A Modeling Study of Coarse Particulate Matter Pollution in Beijing: Regional Source Contributions and Control Implications for the 2008 Summer Olympics, 1057

Olympic National Park
Characterization of Ambient Fine Particles in the Northwestern Area and Anchorage, Alaska, 1328

On-Road Emissions
Real-World Vehicle Emissions: A Summary of the Seventeenth Coordinating Research Council On-Road Vehicle Emissions Workshop, 3

OP-FTIR
Applications of Open-Path Fourier Transform Infrared for Identification of Volatile Organic Compound Pollution Sources and Characterization of Source Emission Behaviors, 821
Characterization of Near-Road Pollutant Gradients Using Path-Integrated Optical Remote Sensing, 879
Developing and Evaluating Techniques for Localizing Pollutant Emission Sources with Open-Path Fourier Transform Infrared Measurements and Wind Data, 1360

Open Burning
Effects of Open Burning of Rice Straw on Concentrations of Atmospheric Polycyclic Aromatic Hydrocarbons in Central Taiwan, 1318

Optical Remote Sensing
Developing and Evaluating Techniques for Localizing Pollutant Emission Sources with Open-Path Fourier Transform Infrared Measurements and Wind Data, 1360

Organic Material (OM)
Apportionment of Ambient Primary and Secondary Fine Particulate Matter at the Pittsburgh National Energy Laboratory Particulate Matter Characterization Site Using Positive Matrix Factorization and a Potential Source Contributions Function Analysis, 357

Ozone (O_3)
Air Quality Impacts of Distributed Energy Resources Implemented in the Northeastern United States, 902
Codependencies of Reactive Air Toxic and Criteria Pollutants on Emission Reductions, 693
Differences between Weekday and Weekend Air Pollutant Levels in Atlanta; Baltimore; Chicago; Dallas–Fort Worth; Denver; Houston; New York; Phoenix; Washington, DC; and Surrounding Areas, 1598
Impact of Downward-Mixing Ozone on Surface Ozone Accumulation in Southern Taiwan, 562
Modeling Analyses of the Effects of Changes in Nitrogen Oxides Emissions from the Electric Power Sector on Ozone Levels in the Eastern United States, 580
Rethinking the Assessment of Photochemical Modeling Systems in Air Quality Planning Applications, 1086

Ozone Formation
The Ozone Productivity of *n*-Propyl Bromide: Part 2—An Exception to the Maximum Incremental Reactivity Scale, 891

Ozone Precursors
Differences between Weekday and Weekend Air Pollutant Levels in Atlanta; Baltimore; Chicago; Dallas–Fort Worth; Denver; Houston; New York; Phoenix; Washington, DC; and Surrounding Areas, 1598

Ozonesonde
Impact of Downward-Mixing Ozone on Surface Ozone Accumulation in Southern Taiwan, 562

Pacific Northwest
Evidence of Enhanced Atmospheric Ammoniacal Nitrogen in Hells Canyon National Recreation Area: Implications for Natural and Cultural Resources, 1223

Packing Bed
Study on the Indoor Volatile Organic Compound Treatment and Performance Assessment with TiO_2/MCM-41 and TiO_2/Quartz Photoreactor under Ultraviolet Irradiation, 1266

Paint Manufacturing
Applications of Open-Path Fourier Transform Infrared for Identification of Volatile Organic Compound Pollution Sources and Characterization of Source Emission Behaviors, 821

Particle Deposition
Whole House Particle Removal and Clean Air Delivery Rates for In-Duct and Portable Ventilation Systems, 1474

Particle Number Concentration
Estimates of Black Carbon and Size-Resolved Particle Number Emission Factors from Residential Wood Burning Based on Ambient Monitoring and Model Simulations, 838
Roadside Measurements of Ultrafine Particles at a Busy Urban Intersection, 1449

Particle Size Distribution
Roadside Measurements of Ultrafine Particles at a Busy Urban Intersection, 1449

Particulate Matter (PM)
Air Quality Impacts of Distributed Energy Resources Implemented in the Northeastern United States, 902
Apportionment of Ambient Primary and Secondary Fine Particulate Matter at the Pittsburgh National Energy Laboratory Particulate Matter Characterization Site Using Positive Matrix Factorization and a Potential Source Contributions Function Analysis, 357
Back-Trajectory Analysis and Source-Receptor Relationships: Particulate Matter and Nitrogen Isotopic Composition in Rainwater, 1215
Characteristics of Water-Soluble Ionic Species in Fine ($PM_{2.5}$) and Coarse Particulate Matter ($PM_{10-2.5}$) in Kaohsiung, Southern Taiwan, 1579
Characterization of Ambient Fine Particles in the Northwestern Area and Anchorage, Alaska, 1328
Characterization of Particulate Matter and Gaseous Emissions of a C-130H Aircraft, 474
Characterization of Particulate Matter for Three Sites in Kuwait, 994
Comparison of Speciation Sampler and PC-BOSS Fine Particulate Matter Organic Material Results Obtained in Lindon, Utah, during Winter 2001–2002, 65
Continuous and Semicontinuous Monitoring Techniques for Particulate Matter Mass and Chemical Components: A Synthesis of Findings from EPA's Particulate Matter Supersites Program and Related Studies, 164
EPA Supersites Program-Related Emissions-Based Particulate Matter Modeling: Initial Applications and Advances, 289
Estimating the Resuspension Rate and Residence Time of Indoor Particles, 502
Fine Particulate Matter Emissions Inventories: Comparisons of Emissions Estimates with Observations from Recent Field Programs, 320
Fine Particulate Matter Source Apportionment for the Chemical Speciation Trends Network Site at Birmingham, Alabama, Using Positive Matrix Factorization, 27
Key Scientific Findings and Policy- and Health-Relevant Insights from the U.S. Environmental Protection Agency's Particulate Matter Supersites Program and Related Studies: An Integration and Synthesis of Results, S-3
The Longitudinal Dependence of Black Carbon Concentration on Traffic Volume in an Urban Environment, 928

Nonlinear Regression Adjustments of Multiple Continuous Monitoring Methods Produce Effective Characterization of Short-Term Fine Particulate Matter, 812
Real-World Vehicle Emissions: A Summary of the Seventeenth Coordinating Research Council On-Road Vehicle Emissions Workshop, 3
Seasonal and Diurnal Variability in Airborne Mold from an Indoor Residential Environment in Northern New York, 684
Secondary Particulate Matter in the United States: Insights from the Particulate Matter Supersites Program and Related Studies, 234
A Special Issue of *JA&WMA* Supporting Key Scientific and Policy- and Health-Relevant Findings from EPA's Particulate Matter Supersites Program and Related Studies: An Integration and Synthesis of Results, 137
Traffic and Meteorological Impacts on Near-Road Air Quality: Summary of Methods and Trends from the Raleigh Near-Road Study, 865
Transport of Atmospheric Fine Particulate Matter: Part 1—Findings from Recent Field Programs on the Extent of Regional Transport within North America, 254
The U.S. Environmental Protection Agency's Particulate Matter Supersites Program: An Integrated Synthesis of Scientific Findings and Policy- and Health-Relevant Insights, S-1

Passive Samplers
Evaluation of the Use of Diffusive Air Samplers for Determining Temporal and Spatial Variation of Volatile Organic Compounds in the Ambient Air of Urban Communities, 1303
Evidence of Enhanced Atmospheric Ammoniacal Nitrogen in Hells Canyon National Recreation Area: Implications for Natural and Cultural Resources, 1223

Path Integrated Concentration
Developing and Evaluating Techniques for Localizing Pollutant Emission Sources with Open-Path Fourier Transform Infrared Measurements and Wind Data, 1360

Persistent Free Radical
Effects of Driving Conditions on Diesel Exhaust Particulates, 1077

Personal Cloud
Generation and Characterization of Diesel Exhaust in a Facility for Controlled Human Exposures, 829

Pesticides
Air and Groundwater Pollution in an Agricultural Region of the Turkish Mediterranean Coast, 1240
Pesticides in Urban Multiunit Dwellings: Hazard Identification Using Classification and Regression Tree (CART) Analysis, 1297

Photocatalysis
Deactivation of Titanium Dioxide Photocatalyst by Oxidation of Polydimethylsiloxane and Silicon Sealant Off-Gas in a Recirculating Batch Reactor, 12
Design Approaches for a Cycling Adsorbent/Photocatalyst System for Indoor Air Purification: Formaldehyde Example, 494
Development of a Regenerable System Employing Silica-Titania Composites for the Recovery of Mercury from End-Box Exhaust at a Chlor-Alkali Facility, 530

Photocatalytic
Study on the Indoor Volatile Organic Compound Treatment and Performance Assessment with TiO_2/MCM-41 and TiO_2/Quartz Photoreactor under Ultraviolet Irradiation, 1266

Photochemical Modeling
Single-Source Impact Analysis Using Three-Dimensional Air Quality Models, 1351

Photochemical Pollutants
EPA Supersites Program-Related Emissions-Based Particulate Matter Modeling: Initial Applications and Advances, 289

Pittsburgh, PA
Apportionment of Ambient Primary and Secondary Fine Particulate Matter at the Pittsburgh National Energy Laboratory Particulate Matter Characterization Site Using Positive Matrix Factorization and a Potential Source Contributions Function Analysis, 357

Plaster Board
Metal Oxides Remove Hydrogen Sulfide from Landfill Gas Produced from Waste Mixed with Plaster Board under Wet Conditions, 1014

PM Nitrate
Differences between Weekday and Weekend Air Pollutant Levels in Atlanta; Baltimore; Chicago; Dallas–Fort Worth; Denver; Houston; New York; Phoenix; Washington, DC; and Surrounding Areas, 1598

$PM_{2.5}$
Advances in Integrated and Continuous Measurements for Particle Mass and Chemical Composition, 141
Characteristics of Water-Soluble Ionic Species in Fine ($PM_{2.5}$) and Coarse Particulate Matter ($PM_{10-2.5}$) in Kaohsiung, Southern Taiwan, 1579
Characterization of Particulate Matter for Three Sites in Kuwait, 994
Characterization of Spatially Homogeneous Regions Based on Temporal Patterns of Fine Particulate Matter in the Continental United States, 965
Comparison of Speciation Sampler and PC-BOSS Fine Particulate Matter Organic Material Results Obtained in Lindon, Utah, during Winter 2001–2002, 65
Effect of Meteorological Parameters on Fine and Coarse Particulate Matter Mass Concentration in a Coal-Mining Area in Zonguldak, Turkey, 543
Fine Particulate Matter Emissions Inventories: Comparisons of Emissions Estimates with Observations from Recent Field Programs, 320
Fine Particulate Matter Source Apportionment for the Chemical Speciation Trends Network Site at Birmingham, Alabama, Using Positive Matrix Factorization, 27
Hot Filter/Impinger and Dilution Sampling for Fine Particulate Matter Characterization from Ferrous Metal Casting Processes, 553
Measurement, Analysis, and Modeling of Fine Particulate Matter in Eastern North Carolina, 1208
Nonlinear Regression Adjustments of Multiple Continuous Monitoring Methods Produce Effective Characterization of Short-Term Fine Particulate Matter, 812
A Quantitative Approach to the Traffic Air Quality Problem: The Traffic Air Quality Index, 641
Seasonal Variations and Evidence for the Effectiveness of Pollution Controls on Water-Soluble Inorganic Species in Total Suspended Particulates and Fine Particulate Matter from Xi'an, China, 1560
Secondary Particulate Matter in the United States: Insights from the Particulate Matter Supersites Program and Related Studies, 234
Synopsis of the Temporal Variation of Particulate Matter Composition and Size, 216
Transport of Atmospheric Fine Particulate Matter: Part 2—Findings from Recent Field Programs on the Intraurban Variability in Fine Particulate Matter, 196

Whole House Particle Removal and Clean Air Delivery Rates for In-Duct and Portable Ventilation Systems, 1474

$PM_{2.5}$ Exposure
Measurements of Ultrafine Particles and Other Vehicular Pollutants inside a Mobile Exposure System on Los Angeles Freeways, 424

$PM_{2.5-10}$
Characteristics of Water-Soluble Ionic Species in Fine ($PM_{2.5}$) and Coarse Particulate Matter ($PM_{10-2.5}$) in Kaohsiung, Southern Taiwan, 1579

PM_{10}
Characterization of Particulate Matter for Three Sites in Kuwait, 994
Estimates of Black Carbon and Size-Resolved Particle Number Emission Factors from Residential Wood Burning Based on Ambient Monitoring and Model Simulations, 838
Inorganic and Carbonaceous Components in Indoor/Outdoor Particulate Matter in Two Residential Houses in Oslo, Norway, 346
Investigation of the AP-42 Sampling Method, 1422
A Modeling Study of Coarse Particulate Matter Pollution in Beijing: Regional Source Contributions and Control Implications for the 2008 Summer Olympics, 1057

PM_{10} Mass Concentrations
Effect of Meteorological Parameters on Fine and Coarse Particulate Matter Mass Concentration in a Coal-Mining Area in Zonguldak, Turkey, 543

Pollutant Gases
Development of Ambient Air Quality Population-Weighted Metrics for Use in Time-Series Health Studies, 711

Pollution Control Equipment
Development of a Regenerable System Employing Silica-Titania Composites for the Recovery of Mercury from End-Box Exhaust at a Chlor-Alkali Facility, 530

Polychlorinated Biphenyls (PCBs)
Multimedia Emissions Inventory of Polychlorinated Biphenyls for the U.S. Great Lakes States, 1022

Polycyclic Aromatic Hydrocarbon (PAH)
Control of Diesel Gaseous and Particulate Emissions with a Tube-Type Wet Electrostatic Precipitator, 1311
Effects of Open Burning of Rice Straw on Concentrations of Atmospheric Polycyclic Aromatic Hydrocarbons in Central Taiwan, 1318
Formation Characteristics of Aerosol Particles from Pulverized Coal Pyrolysis in High-Temperature Environments, 702
Measurements of Ultrafine Particles and Other Vehicular Pollutants inside a Mobile Exposure System on Los Angeles Freeways, 424
Polycyclic Aromatic Hydrocarbon Emission Profiles and Removal Efficiency by Electrostatic Precipitator and Wetfine Scrubber in an Iron Ore Sintering Plant, 1401

Portland, OR
Characterization of Ambient Fine Particles in the Northwestern Area and Anchorage, Alaska, 1328

Positive Matrix Factorization (PMF)
Apportionment of Ambient Primary and Secondary Fine Particulate Matter at the Pittsburgh National Energy Laboratory Particulate Matter Characterization Site Using Positive Matrix Factorization and a Potential Source Contributions Function Analysis, 357
Source Apportionment: Findings from the U.S. Supersites Program, 265

Potential Source Contributions Function (PSCF)
Apportionment of Ambient Primary and Secondary Fine Particulate Matter at the Pittsburgh National Energy Laboratory Particulate Matter Characterization Site Using Positive Matrix Factorization and a Potential Source Contributions Function Analysis, 357

Prediction
Forecasting Daily Source Air Quality Using Multivariate Statistical Analysis and Radial Basis Function Networks, 1571

Principal Component Analysis (PCA)
Effects of Open Burning of Rice Straw on Concentrations of Atmospheric Polycyclic Aromatic Hydrocarbons in Central Taiwan, 1318

Privatization
Subregion Districting Analysis for Municipal Solid Waste Collection Privatization, 104

Profile
Impact of Downward-Mixing Ozone on Surface Ozone Accumulation in Southern Taiwan, 562

Propylene Glycol Monomethyl Ether Acetate (PGMEA)
Treatment of Propylene Glycol Monomethyl Ether Acetate in Air Streams by a Biofilter Packed with Fern Chips, 1590

Pulverized Coal
Formation Characteristics of Aerosol Particles from Pulverized Coal Pyrolysis in High-Temperature Environments, 702

Pyrolysis
Formation Characteristics of Aerosol Particles from Pulverized Coal Pyrolysis in High-Temperature Environments, 702

Radial Basis Function (RBF) Neural Network
Forecasting Daily Source Air Quality Using Multivariate Statistical Analysis and Radial Basis Function Networks, 1571

Radial Plume Mapping
Developing and Evaluating Techniques for Localizing Pollutant Emission Sources with Open-Path Fourier Transform Infrared Measurements and Wind Data, 1360

Receptor Modeling
Source Apportionment: Findings from the U.S. Supersites Program, 265

Refuse Trucks
Feasibility of Landfill Gas as a Liquefied Natural Gas Fuel Source for Refuse Trucks, 613

Regeneration
Design Approaches for a Cycling Adsorbent/Photocatalyst System for Indoor Air Purification: Formaldehyde Example, 494

Regional Air Quality Studies
Key Scientific Findings and Policy- and Health-Relevant Insights from the U.S. Environmental Protection Agency's Particulate Matter Supersites Program and Related Studies: An Integration and Synthesis of Results, S-3
The U.S. Environmental Protection Agency's Particulate Matter Supersites Program: An Integrated Synthesis of Scientific Findings and Policy- and Health-Relevant Insights, S-1

Regional Pollution
A Modeling Study of Coarse Particulate Matter Pollution in Beijing: Regional Source Contributions and Control Implications for the 2008 Summer Olympics, 1057

Remediation
Dispersion Modeling to Compare Alternative Technologies for Odor Remediation at Swine Facilities, 1166
Effect of Gaseous Chlorine Dioxide on Indoor Microbial Contaminants, 647

Remote Sensing
Impact of Downward-Mixing Ozone on Surface Ozone Accumulation in Southern Taiwan, 562
Theoretical Evaluation of a Method for Locating Gaseous Emission Hot Spots, 1100

Removal Efficiency
Polycyclic Aromatic Hydrocarbon Emission Profiles and Removal Efficiency by Electrostatic Precipitator and Wetfine Scrubber in an Iron Ore Sintering Plant, 1401

Residence Time
Estimating the Resuspension Rate and Residence Time of Indoor Particles, 502

Residence Time Distribution
Biofiltration Kinetics of a Gaseous Aldehyde Mixture Using a Synthetic Matrix, 412

Respiratory Health
Effect of Gaseous Chlorine Dioxide on Indoor Microbial Contaminants, 647

Resuspension
Estimating the Resuspension Rate and Residence Time of Indoor Particles, 502

Rice-Straw Burning
Effects of Open Burning of Rice Straw on Concentrations of Atmospheric Polycyclic Aromatic Hydrocarbons in Central Taiwan, 1318

Risk Assessment
Air Pollution Directional Risk Assessment for Siting a Landfill, 1539

Roadways
Characterization of Near-Road Pollutant Gradients Using Path-Integrated Optical Remote Sensing, 879
Resolving Local-Scale Emissions for Modeling Air Quality near Roadways, 451

Rock Art
Evidence of Enhanced Atmospheric Ammoniacal Nitrogen in Hells Canyon National Recreation Area: Implications for Natural and Cultural Resources, 1223

Rotary Kiln
Emissions from Carpet Combustion in a Pilot-Scale Rotary Kiln: Comparison with Coal and Particle-Board Combustion, 1070

Rough Interval
Greenhouse Gas Mitigation-Induced Rough-Interval Programming for Municipal Solid Waste Management, 1546

Rural Sites
Continuous Carbon Dioxide Measurements in a Rural Area in the Upper Spanish Plateau, 940

Samplers
Comparison of Speciation Sampler and PC-BOSS Fine Particulate Matter Organic Material Results Obtained in Lindon, Utah, during Winter 2001–2002, 65

Screening Tools
Pesticides in Urban Multiunit Dwellings: Hazard Identification Using Classification and Regression Tree (CART) Analysis, 1297

Seasonal Variability of Ammonia Flux
Characterizing Ammonia Emissions from Swine Farms in Eastern North Carolina: Part 1—Conventional Lagoon and Spray Technology for Waste Treatment, 1130

Seasonal Variation
Seasonal and Diurnal Variability in Airborne Mold from an Indoor Residential Environment in Northern New York, 684
Seasonal Variations and Evidence for the Effectiveness of Pollution Controls on Water-Soluble Inorganic Species in Total Suspended Particulates and Fine Particulate Matter from Xi'an, China, 1560

Semi-Volatile Organic Compounds (SVOCs)
Uncertainties in the Current Knowledge of Some Atmospheric Trace Gases Associated with U.S. Agriculture: A Review, 986
Measurement of Fine Particulate Matter Nonvolatile and Semi-Volatile Organic Material with the Sunset Laboratory Carbon Aerosol Monitor, 72

Semi-Volatile Organic Material (SVOM)
Comparison of Speciation Sampler and PC-BOSS Fine Particulate Matter Organic Material Results Obtained in Lindon, Utah, during Winter 2001–2002, 65
Measurement of Fine Particulate Matter Nonvolatile and Semi-Volatile Organic Material with the Sunset Laboratory Carbon Aerosol Monitor, 72

Semi-Volatile $PM_{2.5}$
Measurement of Fine Particulate Matter Nonvolatile and Semi-Volatile Organic Material with the Sunset Laboratory Carbon Aerosol Monitor, 72

Sensitivity Analysis
Factors Influencing Regional Municipal Solid Waste Management Strategies, 957
Single-Source Impact Analysis Using Three-Dimensional Air Quality Models, 1351

Separation Distances
The Development of Industry-Specific Odor Impact Criteria for Feedlots Using Models, 1177

Sewage Sludge
Determination of the Potential for Release of Mercury from Combustion Product Amended Soils: Part 1—Simulations of Beneficial Use, 673

Size Distribution
Synopsis of the Temporal Variation of Particulate Matter Composition and Size, 216

Size Fractions
Particle Size Distributions and Elemental Composition of Atmospheric Particulate Matter in Southern Italy, 797

Soil Cleanup
Soil Suspension/Dispersion Modeling Methods for Estimating Health-Based Soil Cleanup Levels of Hexavalent Chromium at Chromite Ore Processing Residue Sites, 384

Soil Stabilization
Determination of the Potential for Release of Mercury from Combustion Product Amended Soils: Part 2—Coal Fly Ash Generated Stabilized Soil and Degradation Products, 1495

Soil Suspension/Dispersion Modeling
Soil Suspension/Dispersion Modeling Methods for Estimating Health-Based Soil Cleanup Levels of Hexavalent Chromium at Chromite Ore Processing Residue Sites, 384

Solid-Phase Microextraction
Chemical-Sensory Characterization of Dairy Manure Odor Using Headspace Solid-Phase Microextraction and Multidimensional Gas Chromatography Mass Spectrometry-Olfactometry, 1187

Sorbent Development
Performance of Copper Chloride-Impregnated Sorbents on Mercury Vapor Control in an Entrained-Flow Reactor System, 1458

Sorbent Injection
Performance of Copper Chloride-Impregnated Sorbents on Mercury Vapor Control in an Entrained-Flow Reactor System, 1458

Source Apportionment
Source Apportionment: Findings from the U.S. Supersites Program, 265

Source Identification
Seasonal Variations and Evidence for the Effectiveness of Pollution Controls on Water-Soluble Inorganic Species in Total Suspended Particulates and Fine Particulate Matter from Xi'an, China, 1560

Source Localization
Developing and Evaluating Techniques for Localizing Pollutant Emission Sources with Open-Path Fourier Transform Infrared Measurements and Wind Data, 1360

Sources
Characterization of Ambient Fine Particles in the Northwestern Area and Anchorage, Alaska, 1328

South East Asia
Evaluation of the Mesoscale Meteorological Model (MM5)-Community Multi-Scale Air Quality Model (CMAQ) Performance in Hindcast and Forecast of Ground-Level Ozone, 1341

Spatial Regions
Characterization of Spatially Homogeneous Regions Based on Temporal Patterns of Fine Particulate Matter in the Continental United States, 965

Spatial Resolution
Development of Ambient Air Quality Population-Weighted Metrics for Use in Time-Series Health Studies, 711

Spatial Variability
Resolving Local-Scale Emissions for Modeling Air Quality near Roadways, 451

Speciation Sampler
Comparison of Speciation Sampler and PC-BOSS Fine Particulate Matter Organic Material Results Obtained in Lindon, Utah, during Winter 2001–2002, 65

Spray Technologies
Characterizing Ammonia Emissions from Swine Farms in Eastern North Carolina: Part 2—Potential Environmentally Superior Technologies for Waste Treatment, 1145

Spreadsheet
Estimating National Landfill Methane Emissions: An Application of the 2006 Intergovernmental Panel on Climate Change Waste Model in Panama, 636

Standard Domestic Waste
Estimate of the Pollution Removed by Leaching of Standard Domestic Waste: Mass Assessments Carried Out in Batches and Columns, 1529

Stationary Sources
Hot Filter/Impinger and Dilution Sampling for Fine Particulate Matter Characterization from Ferrous Metal Casting Processes, 553

Strategic Environmental Research and Development Program
Probing Emissions of Military Cargo Aircraft: Description of a Joint Field Measurement Strategic Environmental Research and Development Program, 787

Sulfide Treatment
Metal Oxides Remove Hydrogen Sulfide from Landfill Gas Produced from Waste Mixed with Plaster Board under Wet Conditions, 1014

Sunset
Measurement of Fine Particulate Matter Nonvolatile and Semi-Volatile Organic Material with the Sunset Laboratory Carbon Aerosol Monitor, 72

Supersites Program
A Special Issue of *JA&WMA* Supporting Key Scientific and Policy- and Health-Relevant Findings from EPA's Particulate Matter Supersites Program and Related Studies: An Integration and Synthesis of Results, 137

Supersites Program Synthesis
Continuous and Semicontinuous Monitoring Techniques for Particulate Matter Mass and Chemical Components: A Synthesis of Findings from EPA's Particulate Matter Supersites Program and Related Studies, 164

Surface Properties
Surface Functional Characteristics (C, O, S) of Waste Tire-Derived Carbon Black before and after Steam Activation, 78

Sustainable Development
Estimating Net Changes in Life-Cycle Emissions from Adoption of Emerging Civil Infrastructure Technologies, 55

Swine
Dispersion Modeling to Compare Alternative Technologies for Odor Remediation at Swine Facilities, 1166

Swine Barn
Diurnal Odor, Ammonia, Hydrogen Sulfide, and Carbon Dioxide Emission Profiles of Confined Swine Grower/Finisher Rooms, 1434

Synthetic Precipitation Leaching Procedure
Determination of the Potential for Release of Mercury from Combustion Product Amended Soils: Part 1—Simulations of Beneficial Use, 673
Determination of the Potential for Release of Mercury from Combustion Product Amended Soils: Part 2—Coal Fly Ash Generated Stabilized Soil and Degradation Products, 1495

Taiwan
Impact of Downward-Mixing Ozone on Surface Ozone Accumulation in Southern Taiwan, 562

Tapered Element Oscillating Microbalance (TEOM)
Nonlinear Regression Adjustments of Multiple Continuous Monitoring Methods Produce Effective Characterization of Short-Term Fine Particulate Matter, 812

Technology Development
Development of a Regenerable System Employing Silica-Titania Composites for the Recovery of Mercury from End-Box Exhaust at a Chlor-Alkali Facility, 530
Dispersion Modeling to Compare Alternative Technologies for Odor Remediation at Swine Facilities, 1166
Study on the Indoor Volatile Organic Compound Treatment and Performance Assessment with TiO_2/MCM-41 and TiO_2/Quartz Photoreactor under Ultraviolet Irradiation, 1266

Temporal Resolution
What Have We Learned from Highly Time-Resolved Measurements during EPA's Supersites Program and Related Studies?, 303

Testing
Characterization of Real-World Activity, Fuel Use, and Emissions for Selected Motor Graders Fueled with Petroleum Diesel and B20 Biodiesel, 1274

Thailand
Greenhouse Gas Emission Potential of the Municipal Solid Waste Disposal Sites in Thailand, 629

Thermal Desorption
Evaluation of an Offline Method for the Analysis of Atmospheric Reactive Gaseous Mercury and Particulate Mercury, 377

Time Series
Characterization of Spatially Homogeneous Regions Based on Temporal Patterns of Fine Particulate Matter in the Continental United States, 965

Time-Series Health Studies
Development of Ambient Air Quality Population-Weighted Metrics for Use in Time-Series Health Studies, 711

TiO_2
Design Approaches for a Cycling Adsorbent/Photocatalyst System for Indoor Air Purification: Formaldehyde Example, 494

Total Suspended Particulates
Seasonal Variations and Evidence for the Effectiveness of Pollution Controls on Water-Soluble Inorganic Species in Total Suspended Particulates and Fine Particulate Matter from Xi'an, China, 1560

Toxic Air Pollutants
Diurnal Odor, Ammonia, Hydrogen Sulfide, and Carbon Dioxide Emission Profiles of Confined Swine Grower/Finisher Rooms, 1434

Toxic Gases
Development of a Novel Odor Measurement System Using Gas Chromatography with Surface Acoustic Wave Sensor, 1522
Diurnal Odor, Ammonia, Hydrogen Sulfide, and Carbon Dioxide Emission Profiles of Confined Swine Grower/Finisher Rooms, 1434

Toxics
Development of a Novel Odor Measurement System Using Gas Chromatography with Surface Acoustic Wave Sensor, 1522

Trace Elements
Particle Size Distributions and Elemental Composition of Atmospheric Particulate Matter in Southern Italy, 797

Traffic
A Quantitative Approach to the Traffic Air Quality Problem: The Traffic Air Quality Index, 641
Traffic and Meteorological Impacts on Near-Road Air Quality: Summary of Methods and Trends from the Raleigh Near-Road Study, 865

Trajectory
Back-Trajectory Analysis and Source-Receptor Relationships: Particulate Matter and Nitrogen Isotopic Composition in Rainwater, 1215

Transport
Transport of Atmospheric Fine Particulate Matter: Part 1—Findings from Recent Field Programs on the Extent of Regional Transport within North America, 254

Treatment Technologies
Study on the Indoor Volatile Organic Compound Treatment and Performance Assessment with TiO_2/MCM-41 and TiO_2/Quartz Photoreactor under Ultraviolet Irradiation, 1266

Tropics
Methane Oxidation in Compost-Based Landfill Cover with Vegetation during Wet and Dry Conditions in the Tropics, 603

Tropospheric
Codependencies of Reactive Air Toxic and Criteria Pollutants on Emission Reductions, 693

U.S. Environmental Protection Agency (EPA)
A Special Issue of *JA&WMA* Supporting Key Scientific and Policy- and Health-Relevant Findings from EPA's Particulate Matter Supersites Program and Related Studies: An Integration and Synthesis of Results, 137
Secondary Particulate Matter in the United States: Insights from the Particulate Matter Supersites Program and Related Studies, 234

Ultrafine Particles
Measurements of Ultrafine Particles and Other Vehicular Pollutants inside a Mobile Exposure System on Los Angeles Freeways, 424
Roadside Measurements of Ultrafine Particles at a Busy Urban Intersection, 1449

Uncertainties
Uncertainties in the Current Knowledge of Some Atmospheric Trace Gases Associated with U.S. Agriculture: A Review, 986

UNMIX
Source Apportionment: Findings from the U.S. Supersites Program, 265

Urban Air Pollution
Estimates of Black Carbon and Size-Resolved Particle Number Emission Factors from Residential Wood Burning Based on Ambient Monitoring and Model Simulations, 838

Urban Areas
The Longitudinal Dependence of Black Carbon Concentration on Traffic Volume in an Urban Environment, 928

Urban Intersection
Roadside Measurements of Ultrafine Particles at a Busy Urban Intersection, 1449

UV DOAS
Characterization of Near-Road Pollutant Gradients Using Path-Integrated Optical Remote Sensing, 879

UV/TiO_2/MCM-41
Study on the Indoor Volatile Organic Compound Treatment and Performance Assessment with TiO_2/MCM-41 and TiO_2/Quartz Photoreactor under Ultraviolet Irradiation, 1266

UV/TiO_2/Quartz
Study on the Indoor Volatile Organic Compound Treatment and Performance Assessment with TiO_2/MCM-41 and TiO_2/Quartz Photoreactor under Ultraviolet Irradiation, 1266

Vehicle Emissions
The Australian Air Quality Forecasting System: The Use of Green Scenarios of Motor Vehicle Usage as an Educational Tool, 858
Estimates of Black Carbon and Size-Resolved Particle Number Emission Factors from Residential Wood Burning Based on Ambient Monitoring and Model Simulations, 838
Real-World Vehicle Emissions: A Summary of the Seventeenth Coordinating Research Council On-Road Vehicle Emissions Workshop, 3
Roadside Measurements of Ultrafine Particles at a Busy Urban Intersection, 1449

Volatile Organic Compounds (VOCs)
Applications of Open-Path Fourier Transform Infrared for Identification of Volatile Organic Compound Pollution Sources and Characterization of Source Emission Behaviors, 821
Chemical-Sensory Characterization of Dairy Manure Odor Using Headspace Solid-Phase Microextraction and Multidimensional Gas Chromatography Mass Spectrometry-Olfactometry, 1187
Development of a Field Test Method to Evaluate Gaseous Air Cleaner Performance in a Multizone Building, 919
Direct Measurement of Fugitive Emissions of Hydrocarbons from a Refinery, 1047
Evaluation of the Use of Diffusive Air Samplers for Determining Temporal and Spatial Variation of Volatile Organic Compounds in the Ambient Air of Urban Communities, 1303
Removal of Volatile Organic Compounds at Extreme Shock-Loading Using a Scaled-Up Pilot Rotating Drum Biofilter, 1407
Study on the Indoor Volatile Organic Compound Treatment and Performance Assessment with TiO_2/MCM-41 and TiO_2/Quartz Photoreactor under Ultraviolet Irradiation, 1266
Toluene Removal Biofilter Modeling, 947
Treatment of Propylene Glycol Monomethyl Ether Acetate in Air Streams by a Biofilter Packed with Fern Chips, 1590

Waste
Preliminary Investigation of Greenhouse Gas Emissions from the Environmental Sector in Taiwan, 85

Waste Collection
Subregion Districting Analysis for Municipal Solid Waste Collection Privatization, 104

Waste Disposal
Investigations of Ash Fouling with Cattle Wastes as Reburn Fuel in a Small-Scale Boiler Burner under Transient Conditions, 517

Waste Management
Factors Influencing Regional Municipal Solid Waste Management Strategies, 957
Subregion Districting Analysis for Municipal Solid Waste Collection Privatization, 104

Waste Reduction
Emissions from Carpet Combustion in a Pilot-Scale Rotary Kiln: Comparison with Coal and Particle-Board Combustion, 1070

Waste Storage Lagoon
Characterizing Ammonia Emissions from Swine Farms in Eastern North Carolina: Part 1—Conventional Lagoon and Spray Technology for Waste Treatment, 1130

Waste Stream
Anaerobic Bioconversion of Carbon Dioxide to Biogas in an Upflow Anaerobic Sludge Blanket Reactor, 95

Waste Treatment
Anaerobic Bioconversion of Carbon Dioxide to Biogas in an Upflow Anaerobic Sludge Blanket Reactor, 95

Waste-to-Energy (WTE)
Batch Test Assessment of Waste-to-Energy Combustion Residues Impacts on Precipitate Formation in Landfill Leachate Collection Systems, 19

Water-Holding Structures
Characterizing Ammonia Emissions from Swine Farms in Eastern North Carolina: Part 2—Potential Environmentally Superior Technologies for Waste Treatment, 1145

Water-Soluble Inorganic Ions
Seasonal Variations and Evidence for the Effectiveness of Pollution Controls on Water-Soluble Inorganic Species in Total Suspended Particulates and Fine Particulate Matter from Xi'an, China, 1560

Water-Soluble Ionic Species
Characteristics of Water-Soluble Ionic Species in Fine ($PM_{2.5}$) and Coarse Particulate Matter ($PM_{10-2.5}$) in Kaohsiung, Southern Taiwan, 1579

Water-Soluble Ions
Inorganic and Carbonaceous Components in Indoor/Outdoor Particulate Matter in Two Residential Houses in Oslo, Norway, 346

Weekend Effect
Differences between Weekday and Weekend Air Pollutant Levels in Atlanta; Baltimore; Chicago; Dallas–Fort Worth; Denver; Houston; New York; Phoenix; Washington, DC; and Surrounding Areas, 1598

Wet Electrostatic Precipitator
Control of Diesel Gaseous and Particulate Emissions with a Tube-Type Wet Electrostatic Precipitator, 1311

Wetfine Scrubber
Polycyclic Aromatic Hydrocarbon Emission Profiles and Removal Efficiency by Electrostatic Precipitator and Wetfine Scrubber in an Iron Ore Sintering Plant, 1401

Wind Effects
Wind Direction Bias in Generating Wind Roses and Conducting Sector-Based Air Dispersion Modeling, 913

X-ray Photoelectron Spectroscopy
Surface Functional Characteristics (C, O, S) of Waste Tire-Derived Carbon Black before and after Steam Activation, 78

Zonguldak, Turkey
Effect of Meteorological Parameters on Fine and Coarse Particulate Matter Mass Concentration in a Coal-Mining Area in Zonguldak, Turkey, 543

Author Index

Abolhasani, S.
Real-World In-Use Activity, Fuel Use, and Emissions for Nonroad Construction Vehicles: A Case Study for Excavators, 1033

Adamkiewicz, G.
Pesticides in Urban Multiunit Dwellings: Hazard Identification Using Classification and Regression Tree (CART) Analysis, 1297

Adhikari, A.
Effect of Gaseous Chlorine Dioxide on Indoor Microbial Contaminants, 647

Afon, Y.
An Assessment of Air Emissions from Liquefied Natural Gas Ships Using Different Power Systems and Different Fuels, 404

Afshar, M.
Evaluation of the Use of Diffusive Air Samplers for Determining Temporal and Spatial Variation of Volatile Organic Compounds in the Ambient Air of Urban Communities, 1303

Alagha, O.
Effect of Meteorological Parameters on Fine and Coarse Particulate Matter Mass Concentration in a Coal-Mining Area in Zonguldak, Turkey, 543

Aleksandropoulou, V.
Inorganic and Carbonaceous Components in Indoor/Outdoor Particulate Matter in Two Residential Houses in Oslo, Norway, 346

Alimahmoodi, M.
Anaerobic Bioconversion of Carbon Dioxide to Biogas in an Upflow Anaerobic Sludge Blanket Reactor, 95

Allen, D.T.
Fine Particulate Matter Emissions Inventories: Comparisons of Emissions Estimates with Observations from Recent Field Programs, 320
Transport of Atmospheric Fine Particulate Matter: Part 1—Findings from Recent Field Programs on the Extent of Regional Transport within North America, 254
Transport of Atmospheric Fine Particulate Matter: Part 2—Findings from Recent Field Programs on the Intraurban Variability in Fine Particulate Matter, 196

Alvarez, P.J.J.
Removal of Volatile Organic Compounds at Extreme Shock-Loading Using a Scaled-Up Pilot Rotating Drum Biofilter, 1407

Amar, P.
Development of North American Emission Inventories for Air Quality Modeling under Climate Change, 1483

Amponsah, I.
Estimating Net Changes in Life-Cycle Emissions from Adoption of Emerging Civil Infrastructure Technologies, 55

Anderson, R.R.
Apportionment of Ambient Primary and Secondary Fine Particulate Matter at the Pittsburgh National Energy Laboratory Particulate Matter Characterization Site Using Positive Matrix Factorization and a Potential Source Contributions Function Analysis, 357

Aneja, V.P.
Back-Trajectory Analysis and Source-Receptor Relationships: Particulate Matter and Nitrogen Isotopic Composition in Rainwater, 1215
Characterizing Ammonia Emissions from Swine Farms in Eastern North Carolina: Part 1—Conventional Lagoon and Spray Technology for Waste Treatment, 1130
Characterizing Ammonia Emissions from Swine Farms in Eastern North Carolina: Part 2—Potential Environmentally Superior Technologies for Waste Treatment, 1145
Measurement, Analysis, and Modeling of Fine Particulate Matter in Eastern North Carolina, 1208
Modeling Studies of Ammonia Dispersion and Dry Deposition at Some Hog Farms in North Carolina, 1198

Annamalai, K.
Investigations of Ash Fouling with Cattle Wastes as Reburn Fuel in a Small-Scale Boiler Burner under Transient Conditions, 517

Arimoto, R.
Seasonal Variations and Evidence for the Effectiveness of Pollution Controls on Water-Soluble Inorganic Species in Total Suspended Particulates and Fine Particulate Matter from Xi'an, China, 1560

Arkinson, H.L.
Characterizing Ammonia Emissions from Swine Farms in Eastern North Carolina: Part 1—Conventional Lagoon and Spray Technology for Waste Treatment, 1130
Characterizing Ammonia Emissions from Swine Farms in Eastern North Carolina: Part 2—Potential Environmentally Superior Technologies for Waste Treatment, 1145

Arya, S.P.
Characterizing Ammonia Emissions from Swine Farms in Eastern North Carolina: Part 1—Conventional Lagoon and Spray Technology for Waste Treatment, 1130
Characterizing Ammonia Emissions from Swine Farms in Eastern North Carolina: Part 2—Potential Environmentally Superior Technologies for Waste Treatment, 1145
Modeling Studies of Ammonia Dispersion and Dry Deposition at Some Hog Farms in North Carolina, 1198

Ayala, A.
Prospects for Future Climate Change and the Reasons for Early Action, 1386
Real-World Vehicle Emissions: A Summary of the Seventeenth Coordinating Research Council On-Road Vehicle Emissions Workshop, 3

Bai, Mindi
Conversion of Methane to Liquid Products, Hydrogen, and Ammonia with Environmentally Friendly Condition-Based Microgap Discharge, 1616

Bai, Mindong
Conversion of Methane to Liquid Products, Hydrogen, and Ammonia with Environmentally Friendly Condition-Based Microgap Discharge, 1616

Bai, X.
Conversion of Methane to Liquid Products, Hydrogen, and Ammonia with Environmentally Friendly Condition-Based Microgap Discharge, 1616

Bajwa, K.S.
Characterizing Ammonia Emissions from Swine Farms in Eastern North Carolina: Part 1—Conventional Lagoon and Spray Technology for Waste Treatment, 1130

Characterizing Ammonia Emissions from Swine Farms in Eastern North Carolina: Part 2—Potential Environmentally Superior Technologies for Waste Treatment, 1145
Modeling Studies of Ammonia Dispersion and Dry Deposition at Some Hog Farms in North Carolina, 1198

Baker, B.J.
Whole House Particle Removal and Clean Air Delivery Rates for In-Duct and Portable Ventilation Systems, 1474

Baldauf, R.W.
Characterization of Near-Road Pollutant Gradients Using Path-Integrated Optical Remote Sensing, 879
Traffic and Meteorological Impacts on Near-Road Air Quality: Summary of Methods and Trends from the Raleigh Near-Road Study, 865

Bang, J.
Traffic and Meteorological Impacts on Near-Road Air Quality: Summary of Methods and Trends from the Raleigh Near-Road Study, 865

Bari, M.E.
Feasibility of Landfill Gas as a Liquefied Natural Gas Fuel Source for Refuse Trucks, 613

Baumann, K.
Fine Particulate Matter Source Apportionment for the Chemical Speciation Trends Network Site at Birmingham, Alabama, Using Positive Matrix Factorization, 27

Beasley, D.B.
Quality Assured Measurements of Animal Building Emissions: Odor Concentrations, 806

Benjey, W.
Resolving Local-Scale Emissions for Modeling Air Quality near Roadways, 451

Berg, D.R.
Effects of a Zeolite-Selective Catalytic Reduction System on Comprehensive Emissions from a Heavy-Duty Diesel Engine, 1258

Bergersen, O.
Metal Oxides Remove Hydrogen Sulfide from Landfill Gas Produced from Waste Mixed with Plaster Board under Wet Conditions, 1014

Bergin, M.S.
Single-Source Impact Analysis Using Three-Dimensional Air Quality Models, 1351

Berman, L.
Multimedia Emissions Inventory of Polychlorinated Biphenyls for the U.S. Great Lakes States, 1022

Black, K.N.
Real-World Vehicle Emissions: A Summary of the Seventeenth Coordinating Research Council On-Road Vehicle Emissions Workshop, 3

Blanchard, C.L.
Differences between Weekday and Weekend Air Pollutant Levels in Atlanta; Baltimore; Chicago; Dallas–Fort Worth; Denver; Houston; New York; Phoenix; Washington, DC; and Surrounding Areas, 1598

Bollman, A.D.
Emission Projections for the U.S. Environmental Protection Agency Section 812 Second Prospective Clean Air Act Cost/Benefit Analysis, 657

Booker, F.
Uncertainties in the Current Knowledge of Some Atmospheric Trace Gases Associated with U.S. Agriculture: A Review, 986

Boughedaoui, M.
On-Board Emission Measurement of High-Loaded Light-Duty Vehicles in Algeria, 45

Bouhamra, W.
Characterization of Particulate Matter for Three Sites in Kuwait, 994

Bowersox, V.
Uncertainties in the Current Knowledge of Some Atmospheric Trace Gases Associated with U.S. Agriculture: A Review, 986

Breysse, P.N.
The Longitudinal Dependence of Black Carbon Concentration on Traffic Volume in an Urban Environment, 928

Brion, O.
A New Multipollutant, No-Threshold Air Quality Health Index Based on Short-Term Associations Observed in Daily Time-Series Analyses, 435

Brouwer, J.
Air Quality Impacts of Distributed Energy Resources Implemented in the Northeastern United States, 902

Brown, K.W.
Characterization of Particulate Matter for Three Sites in Kuwait, 994

Buckley, T.J.
The Longitudinal Dependence of Black Carbon Concentration on Traffic Volume in an Urban Environment, 928

Burgers, M.
The Australian Air Quality Forecasting System: The Use of Green Scenarios of Motor Vehicle Usage as an Educational Tool, 858

Burnett, R.T.
A New Multipollutant, No-Threshold Air Quality Health Index Based on Short-Term Associations Observed in Daily Time-Series Analyses, 435

Burton, N.C.
Effect of Gaseous Chlorine Dioxide on Indoor Microbial Contaminants, 647

Burtraw, D.
Air Emissions of Ammonia and Methane from Livestock Operations: Valuation and Policy Options, 1117

Bytnerowicz, A.
Evidence of Enhanced Atmospheric Ammoniacal Nitrogen in Hells Canyon National Recreation Area: Implications for Natural and Cultural Resources, 1223

Cadle, S.H.
Real-World Vehicle Emissions: A Summary of the Seventeenth Coordinating Research Council On-Road Vehicle Emissions Workshop, 3

Cai, L.
Chemical-Sensory Characterization of Dairy Manure Odor Using Headspace Solid-Phase Microextraction and Multidimensional Gas Chromatography Mass Spectrometry-Olfactometry, 1187

Canales, R.A.
Pesticides in Urban Multiunit Dwellings: Hazard Identification Using Classification and Regression Tree (CART) Analysis, 1297

Cao, J.
Seasonal Variations and Evidence for the Effectiveness of Pollution Controls on Water-Soluble Inorganic Species in Total Suspended Particulates and Fine Particulate Matter from Xi'an, China, 1560

Capareda, S.C.
Seasonal and Spatial Variations of Ammonia Emissions from an Open-Lot Dairy Operation, 369

Cardoso, A.J.
Batch Test Assessment of Waste-to-Energy Combustion Residues Impacts on Precipitate Formation in Landfill Leachate Collection Systems, 19

Carreras-Sospedra, M.
Air Quality Impacts of Distributed Energy Resources Implemented in the Northeastern United States, 902

Carter, C.
Comparison of Speciation Sampler and PC-BOSS Fine Particulate Matter Organic Material Results Obtained in Lindon, Utah, during Winter 2001–2002, 65

Cary, R.A.
Measurement of Fine Particulate Matter Nonvolatile and Semi-Volatile Organic Material with the Sunset Laboratory Carbon Aerosol Monitor, 72

Cernohlavek, L.G.
Deactivation of Titanium Dioxide Photocatalyst by Oxidation of Polydimethylsiloxane and Silicon Sealant Off-Gas in a Recirculating Batch Reactor, 12

Chakrabarti, T.
A Special Grouping of Papers on Landfill Gas Modeling and Management, 602

Chambers, A.K.
Direct Measurement of Fugitive Emissions of Hydrocarbons from a Refinery, 1047

Chameides, W.L.
Single-Source Impact Analysis Using Three-Dimensional Air Quality Models, 1351

Chang, C.-T.
Study on the Indoor Volatile Organic Compound Treatment and Performance Assessment with TiO_2/MCM-41 and TiO_2/Quartz Photoreactor under Ultraviolet Irradiation, 1266

Chang, M.-C.O.
Hot Filter/Impinger and Dilution Sampling for Fine Particulate Matter Characterization from Ferrous Metal Casting Processes, 553

Chang, P.-E.
Developing and Evaluating Techniques for Localizing Pollutant Emission Sources with Open-Path Fourier Transform Infrared Measurements and Wind Data, 1360

Chang, S.-Y.
Developing and Evaluating Techniques for Localizing Pollutant Emission Sources with Open-Path Fourier Transform Infrared Measurements and Wind Data, 1360

Chang, Y.-F.
Treatment of Propylene Glycol Monomethyl Ether Acetate in Air Streams by a Biofilter Packed with Fern Chips, 1590

Chang, Y.-M.
Study on the Indoor Volatile Organic Compound Treatment and Performance Assessment with TiO_2/MCM-41 and TiO_2/Quartz Photoreactor under Ultraviolet Irradiation, 1266

Chatani, S.
A Modeling Study of Coarse Particulate Matter Pollution in Beijing: Regional Source Contributions and Control Implications for the 2008 Summer Olympics, 1057

Chemweno, M.K.
Deactivation of Titanium Dioxide Photocatalyst by Oxidation of Polydimethylsiloxane and Silicon Sealant Off-Gas in a Recirculating Batch Reactor, 12

Chen, Chia-Hsiu
Effects of Open Burning of Rice Straw on Concentrations of Atmospheric Polycyclic Aromatic Hydrocarbons in Central Taiwan, 1318

Chen, Ching-Hui
Developing and Evaluating Techniques for Localizing Pollutant Emission Sources with Open-Path Fourier Transform Infrared Measurements and Wind Data, 1360

Chen, F.-L.
Traffic and Meteorological Impacts on Near-Road Air Quality: Summary of Methods and Trends from the Raleigh Near-Road Study, 865

Chen, K.-S.
Effects of Open Burning of Rice Straw on Concentrations of Atmospheric Polycyclic Aromatic Hydrocarbons in Central Taiwan, 1318

Chen, L.-W.A.
Advances in Integrated and Continuous Measurements for Particle Mass and Chemical Composition, 141
Source Apportionment: Findings from the U.S. Supersites Program, 265

Chen, V.C.P.
Characterization of Spatially Homogeneous Regions Based on Temporal Patterns of Fine Particulate Matter in the Continental United States, 965

Chen, W.-C.
Surface Functional Characteristics (C, O, S) of Waste Tire-Derived Carbon Black before and after Steam Activation, 78

Chen, W.-H.
Formation Characteristics of Aerosol Particles from Pulverized Coal Pyrolysis in High-Temperature Environments, 702

Chen, W.-Y.
Air Pollution Directional Risk Assessment for Siting a Landfill, 1539

Cheng, M.-D.
Probing Emissions of Military Cargo Aircraft: Description of a Joint Field Measurement Strategic Environmental Research and Development Program, 787

Chiang, H.-L.
Characteristics of Water-Soluble Ionic Species in Fine ($PM_{2.5}$) and Coarse Particulate Matter ($PM_{10-2.5}$) in Kaohsiung, Southern Taiwan, 1579

Chiemchaisri, C.
Greenhouse Gas Emission Potential of the Municipal Solid Waste Disposal Sites in Thailand, 629
Methane Oxidation in Compost-Based Landfill Cover with Vegetation during Wet and Dry Conditions in the Tropics, 603

Chiemchaisri, W.
Methane Oxidation in Compost-Based Landfill Cover with Vegetation during Wet and Dry Conditions in the Tropics, 603

Chin, P.
Design Approaches for a Cycling Adsorbent/Photocatalyst System for Indoor Air Purification: Formaldehyde Example, 494

Chiou, C.-S.
Study on the Indoor Volatile Organic Compound Treatment and Performance Assessment with TiO_2/MCM-41 and TiO_2/Quartz Photoreactor under Ultraviolet Irradiation, 1266

Cho, S.-H.
Traffic and Meteorological Impacts on Near-Road Air Quality: Summary of Methods and Trends from the Raleigh Near-Road Study, 865

Chou, M.-S.
Treatment of Propylene Glycol Monomethyl Ether Acetate in Air Streams by a Biofilter Packed with Fern Chips, 1590

Chow, J.C.
Advances in Integrated and Continuous Measurements for Particle Mass and Chemical Composition, 141
Hot Filter/Impinger and Dilution Sampling for Fine Particulate Matter Characterization from Ferrous Metal Casting Processes, 553
Source Apportionment: Findings from the U.S. Supersites Program, 265

Christensen, W.F.
Apportionment of Ambient Primary and Secondary Fine Particulate Matter at the Pittsburgh National Energy Laboratory Particulate Matter Characterization Site Using Positive Matrix Factorization and a Potential Source Contributions Function Analysis, 357

Chung, K.C.
Evaluation of the Use of Diffusive Air Samplers for Determining Temporal and Spatial Variation of Volatile Organic Compounds in the Ambient Air of Urban Communities, 1303

Cimorelli, A.J.
Codependencies of Reactive Air Toxic and Criteria Pollutants on Emission Reductions, 693

Civerolo, K.L.
Rethinking the Assessment of Photochemical Modeling Systems in Air Quality Planning Applications, 1086

Clark, K.W.
Generation and Characterization of Diesel Exhaust in a Facility for Controlled Human Exposures, 829

Coburn, J.B.
Estimating National Landfill Methane Emissions: An Application of the 2006 Intergovernmental Panel on Climate Change Waste Model in Panama, 636

Cocker, D.R., III
Generation and Characterization of Diesel Exhaust in a Facility for Controlled Human Exposures, 829

Cohan, D.S.
Single-Source Impact Analysis Using Three-Dimensional Air Quality Models, 1351

Cook, R.
Resolving Local-Scale Emissions for Modeling Air Quality near Roadways, 451

Cope, M.
The Australian Air Quality Forecasting System: The Use of Green Scenarios of Motor Vehicle Usage as an Educational Tool, 858

Copeland, S.A.
Evidence of Enhanced Atmospheric Ammoniacal Nitrogen in Hells Canyon National Recreation Area: Implications for Natural and Cultural Resources, 1223

Corbett, J.J.
Assessing Energy, Environmental, and Economic Tradeoffs in Intermodal Freight Transportation, 1004
Emissions Tradeoffs among Alternative Marine Fuels: Total Fuel Cycle Analysis of Residual Oil, Marine Gas Oil, and Marine Diesel Oil, 538

Corporan, E.
Characterization of Particulate Matter and Gaseous Emissions of a C-130H Aircraft, 474
Probing Emissions of Military Cargo Aircraft: Description of a Joint Field Measurement Strategic Environmental Research and Development Program, 787

Cowen, K.A.
Probing Emissions of Military Cargo Aircraft: Description of a Joint Field Measurement Strategic Environmental Research and Development Program, 787

Dabdub, D.
Air Quality Impacts of Distributed Energy Resources Implemented in the Northeastern United States, 902

Darrow, K.
Air Quality Impacts of Distributed Energy Resources Implemented in the Northeastern United States, 902

Davidson, C.I.
Apportionment of Ambient Primary and Secondary Fine Particulate Matter at the Pittsburgh National Energy Laboratory Particulate Matter Characterization Site Using Positive Matrix Factorization and a Potential Source Contributions Function Analysis, 357

deCastro, B.R.
The Longitudinal Dependence of Black Carbon Concentration on Traffic Volume in an Urban Environment, 928

Demerjian, K.L.
Synopsis of the Temporal Variation of Particulate Matter Composition and Size, 216

DeMocker, J.
Emission Projections for the U.S. Environmental Protection Agency Section 812 Second Prospective Clean Air Act Cost/Benefit Analysis, 657

Desjardins, R.L.
Estimating Gas Emissions from Multiple Sources Using a Backward Lagrangian Stochastic Model, 1415

de Torre, B.
Continuous Carbon Dioxide Measurements in a Rural Area in the Upper Spanish Plateau, 940

De Visscher, A.
Toluene Removal Biofilter Modeling, 947

DeWitt, M.J.
Characterization of Particulate Matter and Gaseous Emissions of a C-130H Aircraft, 474
Probing Emissions of Military Cargo Aircraft: Description of a Joint Field Measurement Strategic Environmental Research and Development Program, 787

Diaz-Sanchez, D.
Generation and Characterization of Diesel Exhaust in a Facility for Controlled Human Exposures, 829

Dickey, D.A.
Characterizing Ammonia Emissions from Swine Farms in Eastern North Carolina: Part 1—Conventional Lagoon and Spray Technology for Waste Treatment, 1130

Characterizing Ammonia Emissions from Swine Farms in Eastern North Carolina: Part 2—Potential Environmentally Superior Technologies for Waste Treatment, 1145

Divita, F., Jr.
Emission Projections for the U.S. Environmental Protection Agency Section 812 Second Prospective Clean Air Act Cost/Benefit Analysis, 657

Doraiswamy, P.
Advances in Integrated and Continuous Measurements for Particle Mass and Chemical Composition, 141
Source Apportionment: Findings from the U.S. Supersites Program, 265

Droppo, J.G.
Wind Direction Bias in Generating Wind Roses and Conducting Sector-Based Air Dispersion Modeling, 913

Du, N.
Seasonal Variations and Evidence for the Effectiveness of Pollution Controls on Water-Soluble Inorganic Species in Total Suspended Particulates and Fine Particulate Matter from Xi'an, China, 1560

Du, S.-W.
Formation Characteristics of Aerosol Particles from Pulverized Coal Pyrolysis in High-Temperature Environments, 702

Dye, C.
Inorganic and Carbonaceous Components in Indoor/Outdoor Particulate Matter in Two Residential Houses in Oslo, Norway, 346

Eatough, D.J.
Apportionment of Ambient Primary and Secondary Fine Particulate Matter at the Pittsburgh National Energy Laboratory Particulate Matter Characterization Site Using Positive Matrix Factorization and a Potential Source Contributions Function Analysis, 357
Comparison of Speciation Sampler and PC-BOSS Fine Particulate Matter Organic Material Results Obtained in Lindon, Utah, during Winter 2001–2002, 65
Measurement of Fine Particulate Matter Nonvolatile and Semi-Volatile Organic Material with the Sunset Laboratory Carbon Aerosol Monitor, 72

Eatough, N.L.
Comparison of Speciation Sampler and PC-BOSS Fine Particulate Matter Organic Material Results Obtained in Lindon, Utah, during Winter 2001–2002, 65
Measurement of Fine Particulate Matter Nonvolatile and Semi-Volatile Organic Material with the Sunset Laboratory Carbon Aerosol Monitor, 72

Economou, V.
A New Multipollutant, No-Threshold Air Quality Health Index Based on Short-Term Associations Observed in Daily Time-Series Analyses, 435

Edgerton, S.A.
Introduction to the 2008 Critical Review: Prospects for Future Climate Change and the Reasons for Early Action, 730
2008 Critical Review Discussion: Prospects for Future Climate Change and the Reasons for Early Action, 1386

Eiguren-Fernandez, A.
Measurements of Ultrafine Particles and Other Vehicular Pollutants inside a Mobile Exposure System on Los Angeles Freeways, 424

Eleftheriadis, K.
Inorganic and Carbonaceous Components in Indoor/Outdoor Particulate Matter in Two Residential Houses in Oslo, Norway, 346

Ellermann, T.
Footprints on Ammonia Concentrations from Environmental Regulations, 1158

Ensley, D.
Resolving Local-Scale Emissions for Modeling Air Quality near Roadways, 451

Erdal, S.
Multimedia Emissions Inventory of Polychlorinated Biphenyls for the U.S. Great Lakes States, 1022

Erduran, M.S.
Air and Groundwater Pollution in an Agricultural Region of the Turkish Mediterranean Coast, 1240

Ericksen, J.
Determination of the Potential for Release of Mercury from Combustion Product Amended Soils: Part 1—Simulations of Beneficial Use, 673
Determination of the Potential for Release of Mercury from Combustion Product Amended Soils: Part 2—Coal Fly Ash Generated Stabilized Soil and Degradation Products, 1495

Ervin, D.
An Assessment of Air Emissions from Liquefied Natural Gas Ships Using Different Power Systems and Different Fuels, 404

Etyemezian, V.
Investigation of the AP-42 Sampling Method, 1422

Evans, J.S.
Characterization of Particulate Matter for Three Sites in Kuwait, 994

Falzarano, A.
Assessing Energy, Environmental, and Economic Tradeoffs in Intermodal Freight Transportation, 1004

Faulkner, W.B.
Sensitivity of Two Dispersion Models (AERMOD and ISCST3) to Input Parameters for a Rural Ground-Level Area Source, 1288

Fernandez, G.C.
Determination of the Potential for Release of Mercury from Combustion Product Amended Soils: Part 1—Simulations of Beneficial Use, 673
Determination of the Potential for Release of Mercury from Combustion Product Amended Soils: Part 2—Coal Fly Ash Generated Stabilized Soil and Degradation Products, 1495

Ferro, A.R.
Estimating the Resuspension Rate and Residence Time of Indoor Particles, 502

Feuillade, G.
Estimate of the Pollution Removed by Leaching of Standard Domestic Waste: Mass Assessments Carried Out in Batches and Columns, 1529

Fine, P.M.
Secondary Particulate Matter in the United States: Insights from the Particulate Matter Supersites Program and Related Studies, 234

Flanagan, J.B.
Fine Particulate Matter Source Apportionment for the Chemical Speciation Trends Network Site at Birmingham, Alabama, Using Positive Matrix Factorization, 27

Flesch, T.K.
Estimating Gas Emissions from Multiple Sources Using a Backward Lagrangian Stochastic Model, 1415

Fowler, K.R.
Estimating the Resuspension Rate and Residence Time of Indoor Particles, 502

Francois, V.
Estimate of the Pollution Removed by Leaching of Standard Domestic Waste: Mass Assessments Carried Out in Batches and Columns, 1529

Frey, H.C.
Characterization of Real-World Activity, Fuel Use, and Emissions for Selected Motor Graders Fueled with Petroleum Diesel and B20 Biodiesel, 1274
Real-World In-Use Activity, Fuel Use, and Emissions for Nonroad Construction Vehicles: A Case Study for Excavators, 1033

Froines, J.
Key Scientific Findings and Policy- and Health-Relevant Insights from the U.S. Environmental Protection Agency's Particulate Matter Supersites Program and Related Studies: An Integration and Synthesis of Results, S-3

Fu, J.S.
A Modeling Study of Coarse Particulate Matter Pollution in Beijing: Regional Source Contributions and Control Implications for the 2008 Summer Olympics, 1057

Fukushima, Y.
Preliminary Investigation of Greenhouse Gas Emissions from the Environmental Sector in Taiwan, 85

Fung, D.C.
Measurements of Ultrafine Particles and Other Vehicular Pollutants inside a Mobile Exposure System on Los Angeles Freeways, 424

Gao, H.
Conversion of Methane to Liquid Products, Hydrogen, and Ammonia with Environmentally Friendly Condition-Based Microgap Discharge, 1616

Gao, Z.
Estimating Gas Emissions from Multiple Sources Using a Backward Lagrangian Stochastic Model, 1415

García, M.Á.
Continuous Carbon Dioxide Measurements in a Rural Area in the Upper Spanish Plateau, 940

Gégo, E.
Modeling Analyses of the Effects of Changes in Nitrogen Oxides Emissions from the Electric Power Sector on Ozone Levels in the Eastern United States, 580

Geiser, L.H.
Evidence of Enhanced Atmospheric Ammoniacal Nitrogen in Hells Canyon National Recreation Area: Implications for Natural and Cultural Resources, 1223

Geyh, A.S.
The Longitudinal Dependence of Black Carbon Concentration on Traffic Volume in an Urban Environment, 928

Gidhagen, L.
Estimates of Black Carbon and Size-Resolved Particle Number Emission Factors from Residential Wood Burning Based on Ambient Monitoring and Model Simulations, 838

Gilliland, A.
Modeling Analyses of the Effects of Changes in Nitrogen Oxides Emissions from the Electric Power Sector on Ozone Levels in the Eastern United States, 580

Gilmour, I.
Traffic and Meteorological Impacts on Near-Road Air Quality: Summary of Methods and Trends from the Raleigh Near-Road Study, 865

Glowacki, C.
Hot Filter/Impinger and Dilution Sampling for Fine Particulate Matter Characterization from Ferrous Metal Casting Processes, 553

Godowitch, J.
Modeling Analyses of the Effects of Changes in Nitrogen Oxides Emissions from the Electric Power Sector on Ozone Levels in the Eastern United States, 580

Goetz, S.
Measurement, Analysis, and Modeling of Fine Particulate Matter in Eastern North Carolina, 1208

Gokhale, B.
Feasibility of Landfill Gas as a Liquefied Natural Gas Fuel Source for Refuse Trucks, 613

Gong, H., Jr.
Generation and Characterization of Diesel Exhaust in a Facility for Controlled Human Exposures, 829

Graham, B.G.
Dispersion Modeling to Compare Alternative Technologies for Odor Remediation at Swine Facilities, 1166

Grantz, D.
Uncertainties in the Current Knowledge of Some Atmospheric Trace Gases Associated with U.S. Agriculture: A Review, 986

Graze, R.R.
Real-World Vehicle Emissions: A Summary of the Seventeenth Coordinating Research Council On-Road Vehicle Emissions Workshop, 3

Grinshpun, S.A.
Effect of Gaseous Chlorine Dioxide on Indoor Microbial Contaminants, 647

Grosch, T.
Sensitivity of Two Dispersion Models (AERMOD and ISCST3) to Input Parameters for a Rural Ground-Level Area Source, 1288

Grover, B.D.
Measurement of Fine Particulate Matter Nonvolatile and Semi-Volatile Organic Material with the Sunset Laboratory Carbon Aerosol Monitor, 72

Guerriero, E.
Polycyclic Aromatic Hydrocarbon Emission Profiles and Removal Efficiency by Electrostatic Precipitator and Wetfine Scrubber in an Iron Ore Sintering Plant, 1401

Gullett, B.
Traffic and Meteorological Impacts on Near-Road Air Quality: Summary of Methods and Trends from the Raleigh Near-Road Study, 865

Guo, H.
Diurnal Odor, Ammonia, Hydrogen Sulfide, and Carbon Dioxide Emission Profiles of Confined Swine Grower/Finisher Rooms, 1434

Gustin, M.S.
Determination of the Potential for Release of Mercury from Combustion Product Amended Soils: Part 1—Simulations of Beneficial Use, 673

Determination of the Potential for Release of Mercury from Combustion Product Amended Soils: Part 2—Coal Fly Ash Generated Stabilized Soil and Degradation Products, 1495

Gyldenkærne, S.
Footprints on Ammonia Concentrations from Environmental Regulations, 1158

Haarstad, K.
Metal Oxides Remove Hydrogen Sulfide from Landfill Gas Produced from Waste Mixed with Plaster Board under Wet Conditions, 1014

Hampson, A.
Air Quality Impacts of Distributed Energy Resources Implemented in the Northeastern United States, 902

Hanford, K.L.
Evaluation of an Offline Method for the Analysis of Atmospheric Reactive Gaseous Mercury and Particulate Mercury, 377

Hanssen, J.E.
Inorganic and Carbonaceous Components in Indoor/Outdoor Particulate Matter in Two Residential Houses in Oslo, Norway, 346

Hao, J.
A Modeling Study of Coarse Particulate Matter Pollution in Beijing: Regional Source Contributions and Control Implications for the 2008 Summer Olympics, 1057

Hao, W.
Rethinking the Assessment of Photochemical Modeling Systems in Air Quality Planning Applications, 1086

Harris, D.B.
Probing Emissions of Military Cargo Aircraft: Description of a Joint Field Measurement Strategic Environmental Research and Development Program, 787

Harrison, K.W.
Estimating Net Changes in Life-Cycle Emissions from Adoption of Emerging Civil Infrastructure Technologies, 55

Hashmonay, R.A.
Probing Emissions of Military Cargo Aircraft: Description of a Joint Field Measurement Strategic Environmental Research and Development Program, 787

Theoretical Evaluation of a Method for Locating Gaseous Emission Hot Spots, 1100

Hastings, T.W.
Mercury Oxidation Promoted by a Selective Catalytic Reduction Catalyst under Simulated Powder River Basin Coal Combustion Conditions, 484

Hauser, R.
Pesticides in Urban Multiunit Dwellings: Hazard Identification Using Classification and Regression Tree (CART) Analysis, 1297

Hawker, J.S.
Assessing Energy, Environmental, and Economic Tradeoffs in Intermodal Freight Transportation, 1004

Hays, M.
Traffic and Meteorological Impacts on Near-Road Air Quality: Summary of Methods and Trends from the Raleigh Near-Road Study, 865

He, K.
A Modeling Study of Coarse Particulate Matter Pollution in Beijing: Regional Source Contributions and Control Implications for the 2008 Summer Olympics, 1057

He, L.
Greenhouse Gas Mitigation-Induced Rough-Interval Programming for Municipal Solid Waste Management, 1546

He, S.
Development of North American Emission Inventories for Air Quality Modeling under Climate Change, 1483

Heber, A.J.
Quality Assured Measurements of Animal Building Emissions: Odor Concentrations, 806

Hedman, B.
Air Quality Impacts of Distributed Energy Resources Implemented in the Northeastern United States, 902

Henry, C.G.
The Development of Industry-Specific Odor Impact Criteria for Feedlots Using Models, 1177

Henzel, V.
Development of a Field Test Method to Evaluate Gaseous Air Cleaner Performance in a Multizone Building, 919

Herner, B.
Biofiltration Kinetics of a Gaseous Aldehyde Mixture Using a Synthetic Matrix, 412

Hertel, O.
Footprints on Ammonia Concentrations from Environmental Regulations, 1158

Hess, D.
The Australian Air Quality Forecasting System: The Use of Green Scenarios of Motor Vehicle Usage as an Educational Tool, 858

Hetchler, B.P.
Quality Assured Measurements of Animal Building Emissions: Odor Concentrations, 806

Hettiaratchi, P.
Methane Balance of a Bioreactor Landfill in Latin America, 620

Hidy, G.
Another Successful Year, Thanks to Our Peer-Reviewers, 2

Hinds, W.C.
Measurements of Ultrafine Particles and Other Vehicular Pollutants inside a Mobile Exposure System on Los Angeles Freeways, 424

Ho, S.S.H.
Advances in Integrated and Continuous Measurements for Particle Mass and Chemical Composition, 141

Hoff, S.J.
Forecasting Daily Source Air Quality Using Multivariate Statistical Analysis and Radial Basis Function Networks, 1571
Quality Assured Measurements of Animal Building Emissions: Odor Concentrations, 806

Hogrefe, C.
Modeling Analyses of the Effects of Changes in Nitrogen Oxides Emissions from the Electric Power Sector on Ozone Levels in the Eastern United States, 580
Rethinking the Assessment of Photochemical Modeling Systems in Air Quality Planning Applications, 1086

Holdren, M.W.
Probing Emissions of Military Cargo Aircraft: Description of a Joint Field Measurement Strategic Environmental Research and Development Program, 787

Hopke, P.K.
Apportionment of Ambient Primary and Secondary Fine Particulate Matter at the Pittsburgh National Energy Laboratory Particulate Matter Characterization Site Using Positive Matrix Factorization and a Potential Source Contributions Function Analysis, 357
Characterization of Ambient Fine Particles in the Northwestern Area and Anchorage, Alaska, 1328
Key Scientific Findings and Policy- and Health-Relevant Insights from the U.S. Environmental Protection Agency's Particulate Matter Supersites Program and Related Studies: An Integration and Synthesis of Results, S-3
Measurement of Fine Particulate Matter Nonvolatile and Semi-Volatile Organic Material with the Sunset Laboratory Carbon Aerosol Monitor, 72
A Special Issue of *JA&WMA* Supporting Key Scientific and Policy- and Health-Relevant Findings from EPA's Particulate Matter Supersites Program and Related Studies: An Integration and Synthesis of Results, 137
The U.S. Environmental Protection Agency's Particulate Matter Supersites Program: An Integrated Synthesis of Scientific Findings and Policy- and Health-Relevant Insights, S-1

Howard-Reed, C.
Development of a Field Test Method to Evaluate Gaseous Air Cleaner Performance in a Multizone Building, 919

Hryhorczuk, D.O.
Multimedia Emissions Inventory of Polychlorinated Biphenyls for the U.S. Great Lakes States, 1022

Hsu, Y.-C.
Characteristics of Water-Soluble Ionic Species in Fine ($PM_{2.5}$) and Coarse Particulate Matter ($PM_{10-2.5}$) in Kaohsiung, Southern Taiwan, 1579

Huang, G.
Greenhouse Gas Mitigation-Induced Rough-Interval Programming for Municipal Solid Waste Management, 1546

Hung, C.-H.
Surface Functional Characteristics (C, O, S) of Waste Tire-Derived Carbon Black before and after Steam Activation, 78

Hunte, C.
Methane Balance of a Bioreactor Landfill in Latin America, 620

Hurtado, O.
Methane Balance of a Bioreactor Landfill in Latin America, 620

Hynes, H.P.
Pesticides in Urban Multiunit Dwellings: Hazard Identification Using Classification and Regression Tree (CART) Analysis, 1297

Ingersoll, A.R.
Evidence of Enhanced Atmospheric Ammoniacal Nitrogen in Hells Canyon National Recreation Area: Implications for Natural and Cultural Resources, 1223

Iossifova, Y.
Effect of Gaseous Chlorine Dioxide on Indoor Microbial Contaminants, 647

Isakov, V.
Characterization of Near-Road Pollutant Gradients Using Path-Integrated Optical Remote Sensing, 879
Resolving Local-Scale Emissions for Modeling Air Quality near Roadways, 451
Traffic and Meteorological Impacts on Near-Road Air Quality: Summary of Methods and Trends from the Raleigh Near-Road Study, 865

Ivy, D.
Development of Ambient Air Quality Population-Weighted Metrics for Use in Time-Series Health Studies, 711

Jacko, R.B.
A Quantitative Approach to the Traffic Air Quality Problem: The Traffic Air Quality Index, 641

Jacobson, L.D.
Quality Assured Measurements of Animal Building Emissions: Odor Concentrations, 806

Jacobson, M.Z.
Prospects for Future Climate Change and the Reasons for Early Action, 1386

Jacoby, W.A.
Deactivation of Titanium Dioxide Photocatalyst by Oxidation of Polydimethylsiloxane and Silicon Sealant Off-Gas in a Recirculating Batch Reactor, 12

James, D.E.
Investigation of the AP-42 Sampling Method, 1422

Jang, C.J.
A Modeling Study of Coarse Particulate Matter Pollution in Beijing: Regional Source Contributions and Control Implications for the 2008 Summer Olympics, 1057

Jayanty, R.K.M.
Fine Particulate Matter Source Apportionment for the Chemical Speciation Trends Network Site at Birmingham, Alabama, Using Positive Matrix Factorization, 27

Johansson, C.
Estimates of Black Carbon and Size-Resolved Particle Number Emission Factors from Residential Wood Burning Based on Ambient Monitoring and Model Simulations, 838

John, K.
Roadside Measurements of Ultrafine Particles at a Busy Urban Intersection, 1449

Johnston, M.V.
What Have We Learned from Highly Time-Resolved Measurements during EPA's Supersites Program and Related Studies?, 303

Joumard, R.
On-Board Emission Measurement of High-Loaded Light-Duty Vehicles in Algeria, 45

Julien, R.
Pesticides in Urban Multiunit Dwellings: Hazard Identification Using Classification and Regression Tree (CART) Analysis, 1297

Justice, C.
Monitoring Agricultural Burning in the Mississippi River Valley Region from the Moderate Resolution Imaging Spectroradiometer (MODIS), 1235

Kagann, R.
Probing Emissions of Military Cargo Aircraft: Description of a Joint Field Measurement Strategic Environmental Research and Development Program, 787

Kao, J.-J.
Air Pollution Directional Risk Assessment for Siting a Landfill, 1539
Subregion Districting Analysis for Municipal Solid Waste Collection Privatization, 104

Karaca, F.
Effect of Meteorological Parameters on Fine and Coarse Particulate Matter Mass Concentration in a Coal-Mining Area in Zonguldak, Turkey, 543

Karakouzian, M.
Investigation of the AP-42 Sampling Method, 1422

Karnae, S.
Roadside Measurements of Ultrafine Particles at a Busy Urban Intersection, 1449

Karydis, V.A.
Response of Fine Particulate Matter to Emission Changes of Oxides of Nitrogen and Anthropogenic Volatile Organic Compounds in the Eastern United States, 1463

Kashuba, R.
Nonlinear Regression Adjustments of Multiple Continuous Monitoring Methods Produce Effective Characterization of Short-Term Fine Particulate Matter, 812

Kastner, J.R.
Biofiltration Kinetics of a Gaseous Aldehyde Mixture Using a Synthetic Matrix, 412

Katsivela, E.
Inorganic and Carbonaceous Components in Indoor/Outdoor Particulate Matter in Two Residential Houses in Oslo, Norway, 346

Keener, T.C.
Another Successful Year, Thanks to Our Peer-Reviewers, 2
Control of Diesel Gaseous and Particulate Emissions with a Tube-Type Wet Electrostatic Precipitator, 1311
Performance of Copper Chloride-Impregnated Sorbents on Mercury Vapor Control in an Entrained-Flow Reactor System, 1458

Keller, A.
Methane Balance of a Bioreactor Landfill in Latin America, 620

Kennedy, N.
Measurements of Ultrafine Particles and Other Vehicular Pollutants inside a Mobile Exposure System on Los Angeles Freeways, 424

Kerbachi, R.
On-Board Emission Measurement of High-Loaded Light-Duty Vehicles in Algeria, 45

Ketha, S.
Assessing Energy, Environmental, and Economic Tradeoffs in Intermodal Freight Transportation, 1004

Khang, S.-J.
Control of Diesel Gaseous and Particulate Emissions with a Tube-Type Wet Electrostatic Precipitator, 1311

Khlystov, A.
Traffic and Meteorological Impacts on Near-Road Air Quality: Summary of Methods and Trends from the Raleigh Near-Road Study, 865

Kim, B.
Removal of Volatile Organic Compounds at Extreme Shock-Loading Using a Scaled-Up Pilot Rotating Drum Biofilter, 1407

Kim, D.-S.
Characterizing Ammonia Emissions from Swine Farms in Eastern North Carolina: Part 1—Conventional Lagoon and Spray Technology for Waste Treatment, 1130
Characterizing Ammonia Emissions from Swine Farms in Eastern North Carolina: Part 2—Potential Environmentally Superior Technologies for Waste Treatment, 1145

Kim, E.
Apportionment of Ambient Primary and Secondary Fine Particulate Matter at the Pittsburgh National Energy Laboratory Particulate Matter Characterization Site Using Positive Matrix Factorization and a Potential Source Contributions Function Analysis, 357
Characterization of Ambient Fine Particles in the Northwestern Area and Anchorage, Alaska, 1328

Kim, J.
Effects of Driving Conditions on Diesel Exhaust Particulates, 1077

Kim, K.
Characterization of Real-World Activity, Fuel Use, and Emissions for Selected Motor Graders Fueled with Petroleum Diesel and B20 Biodiesel, 1274
Real-World In-Use Activity, Fuel Use, and Emissions for Nonroad Construction Vehicles: A Case Study for Excavators, 1033

Kim, S.B.
Characterization of Spatially Homogeneous Regions Based on Temporal Patterns of Fine Particulate Matter in the Continental United States, 965

Kimbrough, S.
Traffic and Meteorological Impacts on Near-Road Air Quality: Summary of Methods and Trends from the Raleigh Near-Road Study, 865

Kinnee, E.
Resolving Local-Scale Emissions for Modeling Air Quality near Roadways, 451

Kinsey, J.
Traffic and Meteorological Impacts on Near-Road Air Quality: Summary of Methods and Trends from the Raleigh Near-Road Study, 865

Kleinman, M.
Measurement of Fine Particulate Matter Nonvolatile and Semi-Volatile Organic Material with the Sunset Laboratory Carbon Aerosol Monitor, 72

Knipping, E.
Air Quality Impacts of Distributed Energy Resources Implemented in the Northeastern United States, 902

Kolar, P.
Biofiltration Kinetics of a Gaseous Aldehyde Mixture Using a Synthetic Matrix, 412

Konopa, S.L.
Emissions from Carpet Combustion in a Pilot-Scale Rotary Kiln: Comparison with Coal and Particle-Board Combustion, 1070

Korfmacher, K.
Assessing Energy, Environmental, and Economic Tradeoffs in Intermodal Freight Transportation, 1004

Korontzi, S.
Monitoring Agricultural Burning in the Mississippi River Valley Region from the Moderate Resolution Imaging Spectroradiometer (MODIS), 1235

Kostetski, Y.Y.
Effects of Driving Conditions on Diesel Exhaust Particulates, 1077

Koupal, J.
Real-World Vehicle Emissions: A Summary of the Seventeenth Coordinating Research Council On-Road Vehicle Emissions Workshop, 3

Koutrakis, P.
Characterization of Particulate Matter for Three Sites in Kuwait, 994

Koziel, J.A.
Chemical-Sensory Characterization of Dairy Manure Odor Using Headspace Solid-Phase Microextraction and Multidimensional Gas Chromatography Mass Spectrometry-Olfactometry, 1187
Quality Assured Measurements of Animal Building Emissions: Odor Concentrations, 806

Krupa, S.
Uncertainties in the Current Knowledge of Some Atmospheric Trace Gases Associated with U.S. Agriculture: A Review, 986

Ku, J.-Y.
Rethinking the Assessment of Photochemical Modeling Systems in Air Quality Planning Applications, 1086

Kumar, N.
Air Quality Impacts of Distributed Energy Resources Implemented in the Northeastern United States, 902

Kumar, S.
Feasibility of Landfill Gas as a Liquefied Natural Gas Fuel Source for Refuse Trucks, 613
Methane Oxidation in Compost-Based Landfill Cover with Vegetation during Wet and Dry Conditions in the Tropics, 603
A Special Grouping of Papers on Landfill Gas Modeling and Management, 602

Kwigizile, V.
Investigation of the AP-42 Sampling Method, 1422

Lagier, T.
Estimate of the Pollution Removed by Leaching of Standard Domestic Waste: Mass Assessments Carried Out in Batches and Columns, 1529

Laguë, C.
Diurnal Odor, Ammonia, Hydrogen Sulfide, and Carbon Dioxide Emission Profiles of Confined Swine Grower/Finisher Rooms, 1434

Lai, C.-H.
Effects of Open Burning of Rice Straw on Concentrations of Atmospheric Polycyclic Aromatic Hydrocarbons in Central Taiwan, 1318

Lai, M.-H.
Characteristics of Water-Soluble Ionic Species in Fine ($PM_{2.5}$) and Coarse Particulate Matter ($PM_{10-2.5}$) in Kaohsiung, Southern Taiwan, 1579

Lamoureux, D.P.
Characterization of Particulate Matter for Three Sites in Kuwait, 994

Laor, Y.
Chemical-Sensory Characterization of Dairy Manure Odor Using Headspace Solid-Phase Microextraction and Multidimensional Gas Chromatography Mass Spectrometry-Olfactometry, 1187

Laskin, A.
Probing Emissions of Military Cargo Aircraft: Description of a Joint Field Measurement Strategic Environmental Research and Development Program, 787

Lawson, D.R.
Differences between Weekday and Weekend Air Pollutant Levels in Atlanta; Baltimore; Chicago; Dallas–Fort Worth; Denver; Houston; New York; Phoenix; Washington, DC; and Surrounding Areas, 1598
Real-World Vehicle Emissions: A Summary of the Seventeenth Coordinating Research Council On-Road Vehicle Emissions Workshop, 3

Lazaridis, M.
Inorganic and Carbonaceous Components in Indoor/Outdoor Particulate Matter in Two Residential Houses in Oslo, Norway, 346

LeBouf, R.
Seasonal and Diurnal Variability in Airborne Mold from an Indoor Residential Environment in Northern New York, 684

Lee, C.F.
Preliminary Investigation of Greenhouse Gas Emissions from the Environmental Sector in Taiwan, 85

Lee, C.W.
Mercury Oxidation Promoted by a Selective Catalytic Reduction Catalyst under Simulated Powder River Basin Coal Combustion Conditions, 484

Lee, J.-Y.
Performance of Copper Chloride-Impregnated Sorbents on Mercury Vapor Control in an Entrained-Flow Reactor System, 1458

Lee, S.
The Australian Air Quality Forecasting System: The Use of Green Scenarios of Motor Vehicle Usage as an Educational Tool, 858

Lee, S.J.
Mercury Oxidation Promoted by a Selective Catalytic Reduction Catalyst under Simulated Powder River Basin Coal Combustion Conditions, 484

Lee, S.-S.
Performance of Copper Chloride-Impregnated Sorbents on Mercury Vapor Control in an Entrained-Flow Reactor System, 1458

Lehmann, C.
Uncertainties in the Current Knowledge of Some Atmospheric Trace Gases Associated with U.S. Agriculture: A Review, 986

Lemieux, P.M.
Emissions from Carpet Combustion in a Pilot-Scale Rotary Kiln: Comparison with Coal and Particle-Board Combustion, 1070

Levine, A.D.
Batch Test Assessment of Waste-to-Energy Combustion Residues Impacts on Precipitate Formation in Landfill Leachate Collection Systems, 19

Levy, J.I.
Pesticides in Urban Multiunit Dwellings: Hazard Identification Using Classification and Regression Tree (CART) Analysis, 1297

Lewis, P.
Characterization of Real-World Activity, Fuel Use, and Emissions for Selected Motor Graders Fueled with Petroleum Diesel and B20 Biodiesel, 1274
Real-World In-Use Activity, Fuel Use, and Emissions for Nonroad Construction Vehicles: A Case Study for Excavators, 1033

Li, G.Q.
Toluene Removal Biofilter Modeling, 947

Li, J.
A Modeling Study of Coarse Particulate Matter Pollution in Beijing: Regional Source Contributions and Control Implications for the 2008 Summer Olympics, 1057

Li, X.
Seasonal Variations and Evidence for the Effectiveness of Pollution Controls on Water-Soluble Inorganic Species in Total Suspended Particulates and Fine Particulate Matter from Xi'an, China, 1560

Liang, F.
Control of Diesel Gaseous and Particulate Emissions with a Tube-Type Wet Electrostatic Precipitator, 1311

Liao, K.-J.
Development of North American Emission Inventories for Air Quality Modeling under Climate Change, 1483

Lilley, B.
The Australian Air Quality Forecasting System: The Use of Green Scenarios of Motor Vehicle Usage as an Educational Tool, 858

Lim, C.
Effects of Driving Conditions on Diesel Exhaust Particulates, 1077

Lim, J.
Effects of Driving Conditions on Diesel Exhaust Particulates, 1077

Lin, C.-H.
Impact of Downward-Mixing Ozone on Surface Ozone Accumulation in Southern Taiwan, 562

Lin, Chenfang
Factors Influencing Regional Municipal Solid Waste Management Strategies, 957

Lin, Chitsan
Applications of Open-Path Fourier Transform Infrared for Identification of Volatile Organic Compound Pollution Sources and Characterization of Source Emission Behaviors, 821

Lin, Hsun-Yu
Surface Functional Characteristics (C, O, S) of Waste Tire-Derived Carbon Black before and after Steam Activation, 78

Lin, Hung-Yueh
Subregion Districting Analysis for Municipal Solid Waste Collection Privatization, 104

Lin, M.-D.
Factors Influencing Regional Municipal Solid Waste Management Strategies, 957

Linn, W.S.
Generation and Characterization of Diesel Exhaust in a Facility for Controlled Human Exposures, 829

Liou, N.
Applications of Open-Path Fourier Transform Infrared for Identification of Volatile Organic Compound Pollution Sources and Characterization of Source Emission Behaviors, 821

Liu, P.-W.G.
Preliminary Investigation of Greenhouse Gas Emissions from the Environmental Sector in Taiwan, 85

Liu, Z.
Greenhouse Gas Mitigation-Induced Rough-Interval Programming for Municipal Solid Waste Management, 1546

Liu, Z.G.
Effects of a Zeolite-Selective Catalytic Reduction System on Comprehensive Emissions from a Heavy-Duty Diesel Engine, 1258

Long, R.W.
Comparison of Speciation Sampler and PC-BOSS Fine Particulate Matter Organic Material Results Obtained in Lindon, Utah, during Winter 2001–2002, 65

Long, T.
Traffic and Meteorological Impacts on Near-Road Air Quality: Summary of Methods and Trends from the Raleigh Near-Road Study, 865

Lord, D.
Feasibility of Landfill Gas as a Liquefied Natural Gas Fuel Source for Refuse Trucks, 613

Lowenthal, D.H.
Source Apportionment: Findings from the U.S. Supersites Program, 265

Lu, H.
Greenhouse Gas Mitigation-Induced Rough-Interval Programming for Municipal Solid Waste Management, 1546

Lu, M.
Control of Diesel Gaseous and Particulate Emissions with a Tube-Type Wet Electrostatic Precipitator, 1311

Ludwig, J.F.
Whole House Particle Removal and Clean Air Delivery Rates for In-Duct and Portable Ventilation Systems, 1474

Luecken, D.J.
Codependencies of Reactive Air Toxic and Criteria Pollutants on Emission Reductions, 693

Lutri, A.
Polycyclic Aromatic Hydrocarbon Emission Profiles and Removal Efficiency by Electrostatic Precipitator and Wetfine Scrubber in an Iron Ore Sintering Plant, 1401

Mabilia, R.
Polycyclic Aromatic Hydrocarbon Emission Profiles and Removal Efficiency by Electrostatic Precipitator and Wetfine Scrubber in an Iron Ore Sintering Plant, 1401

MacCracken, M.C.
Prospects for Future Climate Change and the Reasons for Early Action, 1386

MacIntosh, D.L.
Whole House Particle Removal and Clean Air Delivery Rates for In-Duct and Portable Ventilation Systems, 1474

Mangelson, N.F.
Apportionment of Ambient Primary and Secondary Fine Particulate Matter at the Pittsburgh National Energy Laboratory Particulate Matter Characterization Site Using Positive Matrix Factorization and a Potential Source Contributions Function Analysis, 357

Manomaiphiboon, K.
Development of North American Emission Inventories for Air Quality Modeling under Climate Change, 1483

Martello, D.V.
Apportionment of Ambient Primary and Secondary Fine Particulate Matter at the Pittsburgh National Energy Laboratory Particulate Matter Characterization Site Using Positive Matrix Factorization and a Potential Source Contributions Function Analysis, 357

Matejka, G.
Estimate of the Pollution Removed by Leaching of Standard Domestic Waste: Mass Assessments Carried Out in Batches and Columns, 1529

Mazyck, D.W.
Development of a Regenerable System Employing Silica-Titania Composites for the Recovery of Mercury from End-Box Exhaust at a Chlor-Alkali Facility, 530

McCarty, J.
Monitoring Agricultural Burning in the Mississippi River Valley Region from the Moderate Resolution Imaging Spectroradiometer (MODIS), 1235

McCready, P.
Direct Measurement of Fugitive Emissions of Hydrocarbons from a Refinery, 1047

Mihalic, J.N.
The Longitudinal Dependence of Black Carbon Concentration on Traffic Volume in an Urban Environment, 928

Mikkelsen, M.H.
Footprints on Ammonia Concentrations from Environmental Regulations, 1158

Miller, J.W.
Generation and Characterization of Diesel Exhaust in a Facility for Controlled Human Exposures, 829

Minassian, F.
Real-World Vehicle Emissions: A Summary of the Seventeenth Coordinating Research Council On-Road Vehicle Emissions Workshop, 3

Mohnen, V.A.
Synopsis of the Temporal Variation of Particulate Matter Composition and Size, 216

Moncrieff, J.
Direct Measurement of Fugitive Emissions of Hydrocarbons from a Refinery, 1047

Morandi, M.T.
Evaluation of the Use of Diffusive Air Samplers for Determining Temporal and Spatial Variation of Volatile Organic Compounds in the Ambient Air of Urban Communities, 1303

Mottus, K.
Characterizing Ammonia Emissions from Swine Farms in Eastern North Carolina: Part 1—Conventional Lagoon and Spray Technology for Waste Treatment, 1130
Characterizing Ammonia Emissions from Swine Farms in Eastern North Carolina: Part 2—Potential Environmentally Superior Technologies for Waste Treatment, 1145

Mukhtar, S.
Seasonal and Spatial Variations of Ammonia Emissions from an Open-Lot Dairy Operation, 369

Mulholland, J.A.
Development of Ambient Air Quality Population-Weighted Metrics for Use in Time-Series Health Studies, 711
Emissions from Carpet Combustion in a Pilot-Scale Rotary Kiln: Comparison with Coal and Particle-Board Combustion, 1070

Mullen, M.A.
Emission Projections for the U.S. Environmental Protection Agency Section 812 Second Prospective Clean Air Act Cost/Benefit Analysis, 657

Mulligan, C.N.
Anaerobic Bioconversion of Carbon Dioxide to Biogas in an Upflow Anaerobic Sludge Blanket Reactor, 95

Murray, H.B.
Real-World Vehicle Emissions: A Summary of the Seventeenth Coordinating Research Council On-Road Vehicle Emissions Workshop, 3

Mutlu, A.
Seasonal and Spatial Variations of Ammonia Emissions from an Open-Lot Dairy Operation, 369

Myatt, T.A.
Whole House Particle Removal and Clean Air Delivery Rates for In-Duct and Portable Ventilation Systems, 1474

Nabinger, S.J.
Development of a Field Test Method to Evaluate Gaseous Air Cleaner Performance in a Multizone Building, 919

Nakao, S.
Seasonal Variations and Evidence for the Effectiveness of Pollution Controls on Water-Soluble Inorganic Species in Total Suspended Particulates and Fine Particulate Matter from Xi'an, China, 1560

Napier, B.A.
Wind Direction Bias in Generating Wind Roses and Conducting Sector-Based Air Dispersion Modeling, 913

Natarajan, M.
Real-World Vehicle Emissions: A Summary of the Seventeenth Coordinating Research Council On-Road Vehicle Emissions Workshop, 3

Nelson, M.A.
Forecasting Daily Source Air Quality Using Multivariate Statistical Analysis and Radial Basis Function Networks, 1571

Neumann, J.E.
Emission Projections for the U.S. Environmental Protection Agency Section 812 Second Prospective Clean Air Act Cost/Benefit Analysis, 657

Nghiem, L.H.
Evaluation of the Mesoscale Meteorological Model (MM5)-Community Multi-Scale Air Quality Model (CMAQ) Performance in Hindcast and Forecast of Ground-Level Ozone, 1341

Ni, J.-Q.
Quality Assured Measurements of Animal Building Emissions: Odor Concentrations, 806

Nicholas, P.J.
The Development of Industry-Specific Odor Impact Criteria for Feedlots Using Models, 1177

Nicolai, R.E.
Quality Assured Measurements of Animal Building Emissions: Odor Concentrations, 806

Niyogi, D.
Back-Trajectory Analysis and Source-Receptor Relationships: Particulate Matter and Nitrogen Isotopic Composition in Rainwater, 1215

Oanh, N.T.K.
Evaluation of the Mesoscale Meteorological Model (MM5)-Community Multi-Scale Air Quality Model (CMAQ) Performance in Hindcast and Forecast of Ground-Level Ozone, 1341

Occhipinti, C.
Back-Trajectory Analysis and Source-Receptor Relationships: Particulate Matter and Nitrogen Isotopic Composition in Rainwater, 1215

Odman, M.T.
Single-Source Impact Analysis Using Three-Dimensional Air Quality Models, 1351

Oh, H.
Investigations of Ash Fouling with Cattle Wastes as Reburn Fuel in a Small-Scale Boiler Burner under Transient Conditions, 517

Okuda, T.
Seasonal Variations and Evidence for the Effectiveness of Pollution Controls on Water-Soluble Inorganic Species in Total Suspended Particulates and Fine Particulate Matter from Xi'an, China, 1560

Olivares, G.
Estimates of Black Carbon and Size-Resolved Particle Number Emission Factors from Residential Wood Burning Based on Ambient Monitoring and Model Simulations, 838

Ollis, D.F.
Design Approaches for a Cycling Adsorbent/Photocatalyst System for Indoor Air Purification: Formaldehyde Example, 494

Olson, D.
Traffic and Meteorological Impacts on Near-Road Air Quality: Summary of Methods and Trends from the Raleigh Near-Road Study, 865

Olson, M.L.
Evaluation of an Offline Method for the Analysis of Atmospheric Reactive Gaseous Mercury and Particulate Mercury, 377

Olson, N.
Comparison of Speciation Sampler and PC-BOSS Fine Particulate Matter Organic Material Results Obtained in Lindon, Utah, during Winter 2001–2002, 65

Öztas, N.B.
Air and Groundwater Pollution in an Agricultural Region of the Turkish Mediterranean Coast, 1240

Palmer, K.
Air Emissions of Ammonia and Methane from Livestock Operations: Valuation and Policy Options, 1117

Pandis, S.N.
Response of Fine Particulate Matter to Emission Changes of Oxides of Nitrogen and Anthropogenic Volatile Organic Compounds in the Eastern United States, 1463

Pang, S.-H.
Characterization of Real-World Activity, Fuel Use, and Emissions for Selected Motor Graders Fueled with Petroleum Diesel and B20 Biodiesel, 1274
Real-World In-Use Activity, Fuel Use, and Emissions for Nonroad Construction Vehicles: A Case Study for Excavators, 1033

Park, S.-K.
Characterization of Spatially Homogeneous Regions Based on Temporal Patterns of Fine Particulate Matter in the Continental United States, 965

Parker, D.B.
Quality Assured Measurements of Animal Building Emissions: Odor Concentrations, 806

Parnell, C.B.
Seasonal and Spatial Variations of Ammonia Emissions from an Open-Lot Dairy Operation, 369

Pekney, N.J.
Apportionment of Ambient Primary and Secondary Fine Particulate Matter at the Pittsburgh National Energy Laboratory Particulate Matter Characterization Site Using Positive Matrix Factorization and a Potential Source Contributions Function Analysis, 357

Peng, Y.-P.
Effects of Open Burning of Rice Straw on Concentrations of Atmospheric Polycyclic Aromatic Hydrocarbons in Central Taiwan, 1318

Pérez, I.A.
Continuous Carbon Dioxide Measurements in a Rural Area in the Upper Spanish Plateau, 940

Perillo-Nicholas, A.L.
Evaluation of an Offline Method for the Analysis of Atmospheric Reactive Gaseous Mercury and Particulate Mercury, 377

Perng, H.-T.
Treatment of Propylene Glycol Monomethyl Ether Acetate in Air Streams by a Biofilter Packed with Fern Chips, 1590

Persily, A.K.
Development of a Field Test Method to Evaluate Gaseous Air Cleaner Performance in a Multizone Building, 919

Peterson, J.
Diurnal Odor, Ammonia, Hydrogen Sulfide, and Carbon Dioxide Emission Profiles of Confined Swine Grower/Finisher Rooms, 1434

Pirrone, N.
Particle Size Distributions and Elemental Composition of Atmospheric Particulate Matter in Southern Italy, 797

Porter, P.S.
Modeling Analyses of the Effects of Changes in Nitrogen Oxides Emissions from the Electric Power Sector on Ozone Levels in the Eastern United States, 580

Predicala, B.
Diurnal Odor, Ammonia, Hydrogen Sulfide, and Carbon Dioxide Emission Profiles of Confined Swine Grower/Finisher Rooms, 1434

Price, J.C.
Emission Projections for the U.S. Environmental Protection Agency Section 812 Second Prospective Clean Air Act Cost/Benefit Analysis, 657

Proctor, D.
Soil Suspension/Dispersion Modeling Methods for Estimating Health-Based Soil Cleanup Levels of Hexavalent Chromium at Chromite Ore Processing Residue Sites, 384

Qian, J.
Estimating the Resuspension Rate and Residence Time of Indoor Particles, 502

Quick, A.
Characterization of Particulate Matter and Gaseous Emissions of a C-130H Aircraft, 474

Ramirez, D.
Roadside Measurements of Ultrafine Particles at a Busy Urban Intersection, 1449

Rand, A.J.
Feasibility of Landfill Gas as a Liquefied Natural Gas Fuel Source for Refuse Trucks, 613

Rao, S.T.
Modeling Analyses of the Effects of Changes in Nitrogen Oxides Emissions from the Electric Power Sector on Ozone Levels in the Eastern United States, 580

Rasdorf, W.J.
Characterization of Real-World Activity, Fuel Use, and Emissions for Selected Motor Graders Fueled with Petroleum Diesel and B20 Biodiesel, 1274
Real-World In-Use Activity, Fuel Use, and Emissions for Nonroad Construction Vehicles: A Case Study for Excavators, 1033

Ravid, U.
Chemical-Sensory Characterization of Dairy Manure Odor Using Headspace Solid-Phase Microextraction and Multidimensional Gas Chromatography Mass Spectrometry-Olfactometry, 1187

Realff, M.J.
Emissions from Carpet Combustion in a Pilot-Scale Rotary Kiln: Comparison with Coal and Particle-Board Combustion, 1070

Reponen, T.
Effect of Gaseous Chlorine Dioxide on Indoor Microbial Contaminants, 647

Rhea, L.R.
Batch Test Assessment of Waste-to-Energy Combustion Residues Impacts on Precipitate Formation in Landfill Leachate Collection Systems, 19

Rizos, D.C.
Estimating Net Changes in Life-Cycle Emissions from Adoption of Emerging Civil Infrastructure Technologies, 55

Robarge, W.P.
Characterizing Ammonia Emissions from Swine Farms in Eastern North Carolina: Part 1—Conventional Lagoon and Spray Technology for Waste Treatment, 1130
Characterizing Ammonia Emissions from Swine Farms in Eastern North Carolina: Part 2—Potential Environmentally Superior Technologies for Waste Treatment, 1145

Rossner, A.
Seasonal and Diurnal Variability in Airborne Mold from an Indoor Residential Environment in Northern New York, 684

Rotatori, M.
Polycyclic Aromatic Hydrocarbon Emission Profiles and Removal Efficiency by Electrostatic Precipitator and Wetfine Scrubber in an Iron Ore Sintering Plant, 1401

Rowley, P.
Traffic and Meteorological Impacts on Near-Road Air Quality: Summary of Methods and Trends from the Raleigh Near-Road Study, 865

Rumsey, I.C.
Characterizing Ammonia Emissions from Swine Farms in Eastern North Carolina: Part 1—Conventional Lagoon and Spray Technology for Waste Treatment, 1130
Characterizing Ammonia Emissions from Swine Farms in Eastern North Carolina: Part 2—Potential Environmentally Superior Technologies for Waste Treatment, 1145

Russell, A.G.
Characterization of Spatially Homogeneous Regions Based on Temporal Patterns of Fine Particulate Matter in the Continental United States, 965
Development of Ambient Air Quality Population-Weighted Metrics for Use in Time-Series Health Studies, 711
Development of North American Emission Inventories for Air Quality Modeling under Climate Change, 1483
EPA Supersites Program-Related Emissions-Based Particulate Matter Modeling: Initial Applications and Advances, 289
Single-Source Impact Analysis Using Three-Dimensional Air Quality Models, 1351

Rutter, A.P.
Evaluation of an Offline Method for the Analysis of Atmospheric Reactive Gaseous Mercury and Particulate Mercury, 377

Ryu, J.
Effects of Driving Conditions on Diesel Exhaust Particulates, 1077

Saiyasitpanich, P.
Control of Diesel Gaseous and Particulate Emissions with a Tube-Type Wet Electrostatic Precipitator, 1311

Salhotra, M.
Emission Projections for the U.S. Environmental Protection Agency Section 812 Second Prospective Clean Air Act Cost/Benefit Analysis, 657

Salinas, E.
Estimating National Landfill Methane Emissions: An Application of the 2006 Intergovernmental Panel on Climate Change Waste Model in Panama, 636

Salinas, R.
Roadside Measurements of Ultrafine Particles at a Busy Urban Intersection, 1449

Sánchez, M.L.
Continuous Carbon Dioxide Measurements in a Rural Area in the Upper Spanish Plateau, 940

Sanderson, J.
Methane Balance of a Bioreactor Landfill in Latin America, 620

Sattler, M.
Characterization of Spatially Homogeneous Regions Based on Temporal Patterns of Fine Particulate Matter in the Continental United States, 965

Sawant, A.A.
Generation and Characterization of Diesel Exhaust in a Facility for Controlled Human Exposures, 829

Sawvel, R.A.
Removal of Volatile Organic Compounds at Extreme Shock-Loading Using a Scaled-Up Pilot Rotating Drum Biofilter, 1407

Schauer, J.J.
Effects of a Zeolite-Selective Catalytic Reduction System on Comprehensive Emissions from a Heavy-Duty Diesel Engine, 1258
Evaluation of an Offline Method for the Analysis of Atmospheric Reactive Gaseous Mercury and Particulate Mercury, 377

Scheff, P.A.
Nonlinear Regression Adjustments of Multiple Continuous Monitoring Methods Produce Effective Characterization of Short-Term Fine Particulate Matter, 812

Scheffe, R.
Key Scientific Findings and Policy- and Health-Relevant Insights from the U.S. Environmental Protection Agency's Particulate Matter Supersites Program and Related Studies: An Integration and Synthesis of Results, S-3

Schiffman, S.S.
Dispersion Modeling to Compare Alternative Technologies for Odor Remediation at Swine Facilities, 1166

Schmidt, D.R.
Quality Assured Measurements of Animal Building Emissions: Odor Concentrations, 806

Scianò, M.C.T.
Polycyclic Aromatic Hydrocarbon Emission Profiles and Removal Efficiency by Electrostatic Precipitator and Wetfine Scrubber in an Iron Ore Sintering Plant, 1401

Scott, P.K.
Soil Suspension/Dispersion Modeling Methods for Estimating Health-Based Soil Cleanup Levels of Hexavalent Chromium at Chromite Ore Processing Residue Sites, 384

Seila, R.
Traffic and Meteorological Impacts on Near-Road Air Quality: Summary of Methods and Trends from the Raleigh Near-Road Study, 865

Semunegus, H.
Characterizing Ammonia Emissions from Swine Farms in Eastern North Carolina: Part 1—Conventional Lagoon and Spray Technology for Waste Treatment, 1130
Characterizing Ammonia Emissions from Swine Farms in Eastern North Carolina: Part 2—Potential Environmentally Superior Technologies for Waste Treatment, 1145

Serre, S.D.
Mercury Oxidation Promoted by a Selective Catalytic Reduction Catalyst under Simulated Powder River Basin Coal Combustion Conditions, 484

Shaw, B.W.
Sensitivity of Two Dispersion Models (AERMOD and ISCST3) to Input Parameters for a Rural Ground-Level Area Source, 1288

Shen, Z.
Seasonal Variations and Evidence for the Effectiveness of Pollution Controls on Water-Soluble Inorganic Species in Total Suspended Particulates and Fine Particulate Matter from Xi'an, China, 1560

Sheya, S.A.N.
Hot Filter/Impinger and Dilution Sampling for Fine Particulate Matter Characterization from Ferrous Metal Casting Processes, 553

Shie, J.-L.
Study on the Indoor Volatile Organic Compound Treatment and Performance Assessment with TiO_2/MCM-41 and TiO_2/Quartz Photoreactor under Ultraviolet Irradiation, 1266

Shie, R.-H.
Developing and Evaluating Techniques for Localizing Pollutant Emission Sources with Open-Path Fourier Transform Infrared Measurements and Wind Data, 1360

Shieh, Z.-X.
Characteristics of Water-Soluble Ionic Species in Fine ($PM_{2.5}$) and Coarse Particulate Matter ($PM_{10-2.5}$) in Kaohsiung, Southern Taiwan, 1579

Shih, J.-S.
Air Emissions of Ammonia and Methane from Livestock Operations: Valuation and Policy Options, 1117

Shin, H.H.
A New Multipollutant, No-Threshold Air Quality Health Index Based on Short-Term Associations Observed in Daily Time-Series Analyses, 435

Shores, R.C.
Characterization of Near-Road Pollutant Gradients Using Path-Integrated Optical Remote Sensing, 879
Probing Emissions of Military Cargo Aircraft: Description of a Joint Field Measurement Strategic Environmental Research and Development Program, 787
Traffic and Meteorological Impacts on Near-Road Air Quality: Summary of Methods and Trends from the Raleigh Near-Road Study, 865

Showers, W.
Back-Trajectory Analysis and Source-Receptor Relationships: Particulate Matter and Nitrogen Isotopic Composition in Rainwater, 1215

Siikamäki, J.
Air Emissions of Ammonia and Methane from Livestock Operations: Valuation and Policy Options, 1117

Simon, H.
Fine Particulate Matter Emissions Inventories: Comparisons of Emissions Estimates with Observations from Recent Field Programs, 320

Sioutas, C.
Continuous and Semicontinuous Monitoring Techniques for Particulate Matter Mass and Chemical Components: A Synthesis of Findings from EPA's Particulate Matter Supersites Program and Related Studies, 164
Secondary Particulate Matter in the United States: Insights from the Particulate Matter Supersites Program and Related Studies, 234

Sistla, G.
Rethinking the Assessment of Photochemical Modeling Systems in Air Quality Planning Applications, 1086

Skhiri, N.
Estimate of the Pollution Removed by Leaching of Standard Domestic Waste: Mass Assessments Carried Out in Batches and Columns, 1529

Skjøth, C.A.
Footprints on Ammonia Concentrations from Environmental Regulations, 1158

Smith-Doiron, M.
A New Multipollutant, No-Threshold Air Quality Health Index Based on Short-Term Associations Observed in Daily Time-Series Analyses, 435

Snow, R.
Traffic and Meteorological Impacts on Near-Road Air Quality: Summary of Methods and Trends from the Raleigh Near-Road Study, 865

Sodeman, D.A.
Advances in Integrated and Continuous Measurements for Particle Mass and Chemical Composition, 141

Soliman, A.S.M.
A Quantitative Approach to the Traffic Air Quality Problem: The Traffic Air Quality Index, 641

Solomon, P.A.
Continuous and Semicontinuous Monitoring Techniques for Particulate Matter Mass and Chemical Components: A Synthesis of Findings from EPA's Particulate Matter Supersites Program and Related Studies, 164
Key Scientific Findings and Policy- and Health-Relevant Insights from the U.S. Environmental Protection Agency's Particulate Matter Supersites Program and Related Studies: An Integration and Synthesis of Results, S-3
Secondary Particulate Matter in the United States: Insights from the Particulate Matter Supersites Program and Related Studies, 234
A Special Issue of *JA&WMA* Supporting Key Scientific and Policy- and Health-Relevant Findings from EPA's Particulate Matter Supersites Program and Related Studies: An Integration and Synthesis of Results, 137
The U.S. Environmental Protection Agency's Particulate Matter Supersites Program: An Integrated Synthesis of Scientific Findings and Policy- and Health-Relevant Insights, S-1

Spengler, J.D.
Pesticides in Urban Multiunit Dwellings: Hazard Identification Using Classification and Regression Tree (CART) Analysis, 1297
Whole House Particle Removal and Clean Air Delivery Rates for In-Duct and Portable Ventilation Systems, 1474

Spicer, C.W.
Probing Emissions of Military Cargo Aircraft: Description of a Joint Field Measurement Strategic Environmental Research and Development Program, 787

Sprovieri, F.
Particle Size Distributions and Elemental Composition of Atmospheric Particulate Matter in Southern Italy, 797

Staples, E.J.
Development of a Novel Odor Measurement System Using Gas Chromatography with Surface Acoustic Wave Sensor, 1522

Stefanski, L.A.
Characterizing Ammonia Emissions from Swine Farms in Eastern North Carolina: Part 1—Conventional Lagoon and Spray Technology for Waste Treatment, 1130
Characterizing Ammonia Emissions from Swine Farms in Eastern North Carolina: Part 2—Potential Environmentally Superior Technologies for Waste Treatment, 1145

Stieb, D.M.
A New Multipollutant, No-Threshold Air Quality Health Index Based on Short-Term Associations Observed in Daily Time-Series Analyses, 435

Stock, T.H.
Evaluation of the Use of Diffusive Air Samplers for Determining Temporal and Spatial Variation of Volatile Organic Compounds in the Ambient Air of Urban Communities, 1303

Stokke, J.M.
Development of a Regenerable System Employing Silica-Titania Composites for the Recovery of Mercury from End-Box Exhaust at a Chlor-Alkali Facility, 530

Streets, D.G.
A Modeling Study of Coarse Particulate Matter Pollution in Beijing: Regional Source Contributions and Control Implications for the 2008 Summer Olympics, 1057

Ström, J.
Estimates of Black Carbon and Size-Resolved Particle Number Emission Factors from Residential Wood Burning Based on Ambient Monitoring and Model Simulations, 838

Strosher, M.
Direct Measurement of Fugitive Emissions of Hydrocarbons from a Refinery, 1047

Su, J.-W.
Developing and Evaluating Techniques for Localizing Pollutant Emission Sources with Open-Path Fourier Transform Infrared Measurements and Wind Data, 1360

Suh, H.H.
Whole House Particle Removal and Clean Air Delivery Rates for In-Duct and Portable Ventilation Systems, 1474

Sun, E.
Applications of Open-Path Fourier Transform Infrared for Identification of Volatile Organic Compound Pollution Sources and Characterization of Source Emission Behaviors, 821

Sun, G.
Diurnal Odor, Ammonia, Hydrogen Sulfide, and Carbon Dioxide Emission Profiles of Confined Swine Grower/Finisher Rooms, 1434
Forecasting Daily Source Air Quality Using Multivariate Statistical Analysis and Radial Basis Function Networks, 1571

Sung, L.-Y.
Developing and Evaluating Techniques for Localizing Pollutant Emission Sources with Open-Path Fourier Transform Infrared Measurements and Wind Data, 1360

Süren, P.
Effect of Meteorological Parameters on Fine and Coarse Particulate Matter Mass Concentration in a Coal-Mining Area in Zonguldak, Turkey, 543

Sweeten, J.M.
Investigations of Ash Fouling with Cattle Wastes as Reburn Fuel in a Small-Scale Boiler Burner under Transient Conditions, 517

Tagaris, E.
Development of North American Emission Inventories for Air Quality Modeling under Climate Change, 1483

Takekawa, H.
A Modeling Study of Coarse Particulate Matter Pollution in Beijing: Regional Source Contributions and Control Implications for the 2008 Summer Olympics, 1057

Taliaferro, T.
Generation and Characterization of Diesel Exhaust in a Facility for Controlled Human Exposures, 829

Tanaka, S.
Seasonal Variations and Evidence for the Effectiveness of Pollution Controls on Water-Soluble Inorganic Species in Total Suspended Particulates and Fine Particulate Matter from Xi'an, China, 1560

Tanenbaum, S.
Differences between Weekday and Weekend Air Pollutant Levels in Atlanta; Baltimore; Chicago; Dallas–Fort Worth; Denver; Houston; New York; Phoenix; Washington, DC; and Surrounding Areas, 1598

Tanthachoon, N.
Methane Oxidation in Compost-Based Landfill Cover with Vegetation during Wet and Dry Conditions in the Tropics, 603

Tecer, L.H.
Effect of Meteorological Parameters on Fine and Coarse Particulate Matter Mass Concentration in a Coal-Mining Area in Zonguldak, Turkey, 543

Temiyasathit, C.
Characterization of Spatially Homogeneous Regions Based on Temporal Patterns of Fine Particulate Matter in the Continental United States, 965

Teng, H.
Investigation of the AP-42 Sampling Method, 1422

Tennant, C.J.
Real-World Vehicle Emissions: A Summary of the Seventeenth Coordinating Research Council On-Road Vehicle Emissions Workshop, 3

Thesing, K.B.
Emission Projections for the U.S. Environmental Protection Agency Section 812 Second Prospective Clean Air Act Cost/Benefit Analysis, 657

Thoma, E.D.
Characterization of Near-Road Pollutant Gradients Using Path-Integrated Optical Remote Sensing, 879
Traffic and Meteorological Impacts on Near-Road Air Quality: Summary of Methods and Trends from the Raleigh Near-Road Study, 865

Thurman, J.
Resolving Local-Scale Emissions for Modeling Air Quality near Roadways, 451

Todd, L.
Characterizing Ammonia Emissions from Swine Farms in Eastern North Carolina: Part 1—Conventional Lagoon and Spray Technology for Waste Treatment, 1130
Characterizing Ammonia Emissions from Swine Farms in Eastern North Carolina: Part 2—Potential Environmentally Superior Technologies for Waste Treatment, 1145

Tory, K.
The Australian Air Quality Forecasting System: The Use of Green Scenarios of Motor Vehicle Usage as an Educational Tool, 858

Touma, J.S.
Resolving Local-Scale Emissions for Modeling Air Quality near Roadways, 451

Trexler, M.C.
Prospects for Future Climate Change and the Reasons for Early Action, 1386

Tsai, C.-W.
Study on the Indoor Volatile Organic Compound Treatment and Performance Assessment with TiO_2/MCM-41 and TiO_2/Quartz Photoreactor under Ultraviolet Irradiation, 1266

Tsai, J.-H.
Preliminary Investigation of Greenhouse Gas Emissions from the Environmental Sector in Taiwan, 85

Tseng, T.K.
Preliminary Investigation of Greenhouse Gas Emissions from the Environmental Sector in Taiwan, 85

Tsimpidi, A.P.
Response of Fine Particulate Matter to Emission Changes of Oxides of Nitrogen and Anthropogenic Volatile Organic Compounds in the Eastern United States, 1463

Tudsri, S.
Methane Oxidation in Compost-Based Landfill Cover with Vegetation during Wet and Dry Conditions in the Tropics, 603

Tuncel, G.
Effect of Meteorological Parameters on Fine and Coarse Particulate Matter Mass Concentration in a Coal-Mining Area in Zonguldak, Turkey, 543

Tuncel, S.G.
Air and Groundwater Pollution in an Agricultural Region of the Turkish Mediterranean Coast, 1240

Turner, J.R.
Transport of Atmospheric Fine Particulate Matter: Part 1—Findings from Recent Field Programs on the Extent of Regional Transport within North America, 254
Transport of Atmospheric Fine Particulate Matter: Part 2—Findings from Recent Field Programs on the Intraurban Variability in Fine Particulate Matter, 196

van Haarlem, R.P.
Estimating Gas Emissions from Multiple Sources Using a Backward Lagrangian Stochastic Model, 1415

Visvanathan, C.
Greenhouse Gas Emission Potential of the Municipal Solid Waste Disposal Sites in Thailand, 629

Viswanathan, S.
Development of a Novel Odor Measurement System Using Gas Chromatography with Surface Acoustic Wave Sensor, 1522

Wang, C.
Factors Influencing Regional Municipal Solid Waste Management Strategies, 957

Wang, H.-K.
Effects of Open Burning of Rice Straw on Concentrations of Atmospheric Polycyclic Aromatic Hydrocarbons in Central Taiwan, 1318

Wang, Li
Biofiltration Kinetics of a Gaseous Aldehyde Mixture Using a Synthetic Matrix, 412

Wang, Litao
A Modeling Study of Coarse Particulate Matter Pollution in Beijing: Regional Source Contributions and Control Implications for the 2008 Summer Olympics, 1057

Wang, Lu
The Longitudinal Dependence of Black Carbon Concentration on Traffic Volume in an Urban Environment, 928

Wang, S.
A Modeling Study of Coarse Particulate Matter Pollution in Beijing: Regional Source Contributions and Control Implications for the 2008 Summer Olympics, 1057

Wang, Wei-Chi
Characteristics of Water-Soluble Ionic Species in Fine ($PM_{2.5}$) and Coarse Particulate Matter ($PM_{10-2.5}$) in Kaohsiung, Southern Taiwan, 1579

Wang, Wen-Cheng
Effects of Open Burning of Rice Straw on Concentrations of Atmospheric Polycyclic Aromatic Hydrocarbons in Central Taiwan, 1318

Wang, Y.
Roadside Measurements of Ultrafine Particles at a Busy Urban Intersection, 1449

Watkins, N.
Traffic and Meteorological Impacts on Near-Road Air Quality: Summary of Methods and Trends from the Raleigh Near-Road Study, 865

Watson, J.G.
Advances in Integrated and Continuous Measurements for Particle Mass and Chemical Composition, 141
Hot Filter/Impinger and Dilution Sampling for Fine Particulate Matter Characterization from Ferrous Metal Casting Processes, 553
Source Apportionment: Findings from the U.S. Supersites Program, 265

Watts, P.J.
The Development of Industry-Specific Odor Impact Criteria for Feedlots Using Models, 1177

Weinstein, J.
Traffic and Meteorological Impacts on Near-Road Air Quality: Summary of Methods and Trends from the Raleigh Near-Road Study, 865

Weitz, M.
Estimating National Landfill Methane Emissions: An Application of the 2006 Intergovernmental Panel on Climate Change Waste Model in Panama, 636

Wexler, A.S.
What Have We Learned from Highly Time-Resolved Measurements during EPA's Supersites Program and Related Studies?, 303

Whitman, C.E.
Prospects for Future Climate Change and the Reasons for Early Action, 1386

Whitten, G.Z.
The Ozone Productivity of *n*-Propyl Bromide: Part 2—An Exception to the Maximum Incremental Reactivity Scale, 891

Williams, C.M.
Characterizing Ammonia Emissions from Swine Farms in Eastern North Carolina: Part 1—Conventional Lagoon and Spray Technology for Waste Treatment, 1130
Characterizing Ammonia Emissions from Swine Farms in Eastern North Carolina: Part 2—Potential Environmentally Superior Technologies for Waste Treatment, 1145
Dispersion Modeling to Compare Alternative Technologies for Odor Remediation at Swine Facilities, 1166

Wilson, J.H., Jr.
Emission Projections for the U.S. Environmental Protection Agency Section 812 Second Prospective Clean Air Act Cost/Benefit Analysis, 657

Wilson, W.E.
Measurement of Fine Particulate Matter Nonvolatile and Semi-Volatile Organic Material with the Sunset Laboratory Carbon Aerosol Monitor, 72

Winebrake, J.J.
Assessing Energy, Environmental, and Economic Tradeoffs in Intermodal Freight Transportation, 1004
Emissions Tradeoffs among Alternative Marine Fuels: Total Fuel Cycle Analysis of Residual Oil, Marine Gas Oil, and Marine Diesel Oil, 538

Wittig, A.E.
Fine Particulate Matter Emissions Inventories: Comparisons of Emissions Estimates with Observations from Recent Field Programs, 320

Woo, J.-H.
Development of North American Emission Inventories for Air Quality Modeling under Climate Change, 1483

Wootton, T.
Direct Measurement of Fugitive Emissions of Hydrocarbons from a Refinery, 1047

Wu, C.-F.
Developing and Evaluating Techniques for Localizing Pollutant Emission Sources with Open-Path Fourier Transform Infrared Measurements and Wind Data, 1360

Wu, J.-S.
Formation Characteristics of Aerosol Particles from Pulverized Coal Pyrolysis in High-Temperature Environments, 702

Xin, M.
Determination of the Potential for Release of Mercury from Combustion Product Amended Soils: Part 2—Coal Fly Ash Generated Stabilized Soil and Degradation Products, 1495

Yang, H.-H.
Formation Characteristics of Aerosol Particles from Pulverized Coal Pyrolysis in High-Temperature Environments, 702

Yang, J.-C.
Developing and Evaluating Techniques for Localizing Pollutant Emission Sources with Open-Path Fourier Transform Infrared Measurements and Wind Data, 1360

Yarwood, G.
The Ozone Productivity of *n*-Propyl Bromide: Part 2—An Exception to the Maximum Incremental Reactivity Scale, 891

Yesse, L.
Seasonal and Diurnal Variability in Airborne Mold from an Indoor Residential Environment in Northern New York, 684

Yu, L.E.
Effects of Driving Conditions on Diesel Exhaust Particulates, 1077

Yuan, C.-S.
Surface Functional Characteristics (C, O, S) of Waste Tire-Derived Carbon Black before and after Steam Activation, 78

Zalewsky, E.E.
Rethinking the Assessment of Photochemical Modeling Systems in Air Quality Planning Applications, 1086

Zelle, B.C.
Forecasting Daily Source Air Quality Using Multivariate Statistical Analysis and Radial Basis Function Networks, 1571

Zhang, Q.
A Modeling Study of Coarse Particulate Matter Pollution in Beijing: Regional Source Contributions and Control Implications for the 2008 Summer Olympics, 1057

Zhang, R.
Seasonal Variations and Evidence for the Effectiveness of Pollution Controls on Water-Soluble Inorganic Species in Total Suspended Particulates and Fine Particulate Matter from Xi'an, China, 1560

Zhang, Yang
Measurement, Analysis, and Modeling of Fine Particulate Matter in Eastern North Carolina, 1208

Zhang, Yuanhui
Quality Assured Measurements of Animal Building Emissions: Odor Concentrations, 806

Zhang, Z.
Conversion of Methane to Liquid Products, Hydrogen, and Ammonia with Environmentally Friendly Condition-Based Microgap Discharge, 1616

Zhao, Y.
Mercury Oxidation Promoted by a Selective Catalytic Reduction Catalyst under Simulated Powder River Basin Coal Combustion Conditions, 484

Zhu, Y.
Measurements of Ultrafine Particles and Other Vehicular Pollutants inside a Mobile Exposure System on Los Angeles Freeways, 424
Roadside Measurements of Ultrafine Particles at a Busy Urban Intersection, 1449

Ziehl, P.H.
Estimating Net Changes in Life-Cycle Emissions from Adoption of Emerging Civil Infrastructure Technologies, 55

Zietsman, J.
Feasibility of Landfill Gas as a Liquefied Natural Gas Fuel Source for Refuse Trucks, 613

Zilora, S.
Assessing Energy, Environmental, and Economic Tradeoffs in Intermodal Freight Transportation, 1004

Zwers, J.T.
Evaluation of an Offline Method for the Analysis of Atmospheric Reactive Gaseous Mercury and Particulate Mercury, 377